



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 38] नई दिल्ली, शनिवार, सितम्बर 21, 1991 (भाद्रपद 30, 1913)
No. 38] NEW DELHI, SATURDAY, SEPTEMBER 21, 1991 (BHADRA 30, 1913)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 21st September 1991

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Patent Office Branch,
Todi Estates, III Floor,
Lower Parcel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Darda and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

1—247 GI/91

Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),
"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

(1041)

पेटेंट कार्यालय

एकल तथा अभिकल्प

कलकत्ता, दिनांक 21 सितम्बर 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जान के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट
तीसरा तल, लोअर परले (पश्चिम),
बम्बई-400013

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110005

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
61, बालाजाह रोड,
मद्रास-600002

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय)

निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन, 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700020

तार पता—“पेटेंट्स”

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य
क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा
द्वीप एवं दादरा और नगर हवेली ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

आन्ध्र प्रदेश, कर्नाटक, केरल, ममिलनाडू, राज्य
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,
मिनिक्काय तथा एमिनिविदि द्वीप ।
भारत का अवशेष क्षेत्र ।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनायें, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जायेंगे ।

शुल्क :—शुल्कों की अदायगी या तो नकद की जायगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आवेदन या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है ।

CORRIGENDUM

In the Gazette of India Part III Section 2 dated 4th August 1990 in page 876, for accepted complete specification No. 166928 read Provisional specification Number 962/Mas/85 filed on November 29, 1985 instead of Provisional specification Number 962/Mas/86 filed on November 29, 1986 and read Complete Specification Left January 10, 1986 in place of Complete specification Left January 10, 1987.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

12th August 1991

602/Cal/91. Hoechst Celanese Corporation. Process for the purification of 4-Acetoxystyrene.

603/Cal/91. Engelhard Corporation. Animal feed containing selected montmorillonite clay as additive and method for selecting the clay.

604/Cal/91. Siemens Aktiengesellschaft. Method and device for voltage frequency transformation.

605/Cal/91. Witco Corporation. New surfactant compositions, method for their preparation, and pesticidal compositions containing same.

606/Cal/91. Boryung Biopharma Co., Ltd.. Cultivation method for preparing an oral live typhoid vaccine.

13th August 1991

607/Cal/91. Siemens Aktiengesellschaft. Device for operating a multiprocessor system, preferably a numerical control.

608/Cal/91. Eaton Corporation. Annular speed sensor.

609/Cal/91. Samsung electron devices Co., Ltd. Colour cathod ray tube screen exposure apparatus.

14th August 1991

610/Cal/91. Weston & Wilson Pty. Ltd. Coiled Sheath for electrical cords.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES THIRD FLOOR, SUN MILL COMPOUND, TOWER PAREL (WEST), BOMBAY-13.

15-7-1991

207/Bom/91. Maser Electronics Pvt. Ltd. Improved Ultrasonic Pest Repeller.

208/Bom/91. Krishnakumar Rameshwar Trivedi. A Device of water saver safety valve fitted in the water supply line with the tap.

16-7-1991

209/Bom/91.—Haribhai Jeshangbhai Desai.—Power Production Electrical.

18-7-1991

- 210/Bom/91. Eagle Flask Industries Ltd. A container for maintaining a beverage cooled.
- 211/Bom/91. Upinder Singh Santokh Singh Narula. Starting Toy Block.

19-7-1991

- 212/Bom/91. Visa Petrochemicals Private Ltd. Rust preventing Device for Nuts and Bolts/Studs.
- 213/Bom/91. Hindustan Lever Limited. Shampoo Composition.
- 23rd July, 1990, Great Britain
- 214/Bom/91. Cosmic Marketing Services (India) Private Limited. Battery Terminal.

APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH

61, WALLAJAH ROAD, MADRAS-600 002.

5th August 1991

- 591/Mas/91. Sadhy Padmanabha Yogi. Incorporating threading Principle as in a Nut & Bolt mechanism in the Construction of the tube bearing lens systems in a Compound Microscope.
- 592/Mas/91. Tecumseh Products Company. Method and apparatus for machining scroll wraps.
- 593/Mas/91. The English Electric Company. Electronic Timer with multi mode operation.

6th August 1991

- 594/Mas/91. Rajeev Alexander. A working model of the solar system.
- 595/Mas/91. Roberto Gianfrancesco. Method and apparatus for the absorption-cooling of a fluid.
- 596/Mas/91. Yvan Philippe Gilles Presenti and Jean-Philippe George Quenderff. Inhalation device.

7th August 1991

- 597/Mas/91. Tube Investments of India Ltd. A brake light for bicycles.
- 598/Mas/91. Tube investments of India Ltd. A chain lock for bicycles.
- 599/Mas/91. BASF Aktiengesellschaft. Process and apparatus for increasing the size of ammonium sulfate crystals.
- 600/Mas/91. BASF AKTIENGESELLSCHAFT. The catalytic decomposition of dinitrogen monoxide which is pure or present in gas mixtures.
- 601/Mas/91. Precision Valve Corporation. A multi-layer gasket for an aerosol container closure (July 11, 1991).

8th August 1991

- 602/Mas/91. United Distillers PLC. Sub-surface marking.

9th August 991

- 603/Mas/91. Vudhya Krishnamurthy. Cathode-ray sound recorder.
- 604/Mas/91. Arumugam Vaithianathan. Improvements in or relating to the propelling mechanism of bicycles, tri cycles, cycle-rickshaws, cycle delivery vans or like pedal propelled vehicle.
- 605/Mas/91. Astra Research Centre India. A method of obtaining a vaccine containing antigens of *Cyrtocercus cellulosa*. (Divisional to Patent Application No. 655/Mas/88).

606/Mas/91. The Board of Governors of Wayne University. 1, 2-dioxetane compounds as chemiluminescent labels for organic and biological molecules.

607/Mas/91. Malavika Vinod Kumar. A process for the production of salt fortified with iron and iodine.

Alteration of Date Under Section—16

- 169274 : Antidated to 30th April 1985
(54/Del/88)
- 169275 : Antidated to 14th August 1986
(138/Del/88)
- 169276 : Antidated to 25th June 1985
(172/Del/88)
- 169277 : Antidated to 26th June 1985
(225/Del/88)
- 169278 : Antidated to 25th June 1985
(252/Del/88)
- 169279 : Antidated to 29th November 1985
(337/Del/88)
- 169280 : Antidated to 7th November 1985
(505/Del/88)
- 169298 : Antidated to 3rd December 1985
(234/Mas/89)

OPPOSITION PROCEEDINGS

The opposition as entered by M/s. Piaggio & C.S.P.A. Italy to the grant of Patent on application for Patent No. 157821 made by M/s. Bajaj Auto Ltd. Pune as notified in the Gazette of India, Part III, Section 2 dated 10-1-1987 succeeded and it is ordered that the application for Patent be refused.

The opposition as entered by M/s. Cibatul Ltd., Gujarat to the grant of a Patent on application for Patent No. 163037 made by M/s. Pidilite Industries Pvt. Ltd., Bombay as notified in the Gazette of India, Part III, Section 2 dated 24-12-1988 succeeded and it is ordered that the application for Patent be refused.

An opposition has been entered by Shri Ashok Baran Guha to the grant of a patent on application No. 168330 made by M/s. Lipton India Limited.

The opposition entered by Shri Mayoora Chinubhai Gandhi, and others of Medipedic Surgicals, Gujarat to the grant of a Patent on Application No. 167328 made by Shri Appan Parambath Aboobacker Kerala as notified in Part III Section 2 of the Gazette of India, dated 11th May, 1991, has been dismissed and the Patent ordered to be sealed.

PATENT SEALED

166526 166678 167063 167103 167138 167210 167250 167269
167461 167463 167464 167480 167488 167489 167490 167500
167562 167579 167601 167605 167609 167611 167612 167613
167615 167617 167619 167620 167621 167622 167625 167628
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Mas—10

Bom—05

PATENTS NOT SEALED UNDER SEC. 43

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 165883 165896 165907 165922 165939 165959 165962

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendments proposed by Beecham Group Plc., in respect of Patent No. 156102 as advertised in Part III, Section 2 of the Gazette of India dated the 22nd December 1990 have been allowed.

RENEWAL FEES PAID

148752 149315 149615 149894 149965 150004 150211 151779
 151796 152290 152633 152783 152939 152963 153086 153144
 153207 153290 153533 153576 153608 153691 153881 154221
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 167273 167358 167380

Name Index of applications for Patents in respect of Patent Office Calcutta and its branches for the month of May, 1991 (Nos. 340/Cal/91 to 413/Cal/91, 118/Bombay/91 to 160/Bom/91, 347/Mas/91 to 418/Mas/91 and 385/Del/91 to 474/Del/91), Calcutta (340/C/91 to 413/C/91).

Name & Application No.

—A—

Alt, P. Dipl. Ing.—407/Cal/91.
 A. Menarini Industrie Farmaceutiche Riunite S.r.l.—359/Cal/91.
 ARX Pty. Ltd.—381/Cal/91.
 Asta Pharma Aktiengesellschaft.—391/Cal/91.
 Aurinco Holdings Ltd.—375/Cal/91, 376/Cal/91.

—B—

Banerjee, S. C.—352/Cal/91.
 Bioresearch Inc.—393/Cal/91.

—C—

Chakraborty, A. U.—350/Cal/91, 351/Cal/91, 373/Cal/91.
 Children Farm Chemicals Ltd.—374/Cal/91.
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—D—

Das, A.K.—341/Cal/91.
 Dasgupta, D.—357/Cal/91.
 Das, U. K.—355/Cal/91.
 Dennis, J. T.—349/Cal/91.
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—E—

E. I. Du Pont De Nemours & Co.—370/Cal/91, 371/Cal/91, 378/Cal/91, 386/Cal/91, 387/Cal/91.

—F—

Fidia S. P. A.—340/Cal/91, 345/Cal/91, 409/Cal/91, 412/Cal/91.

—G—

General Electric Co.—364/Cal/91, 410/Cal/91.
 Georg Fischer Ag.—368/Cal/91.
 Geultrasonics.—400/Cal/91.
 Ghosh, K.—363/Cal/91.
 Gillanders Arbuthnot & Co. Ltd.—383/Cal/91.
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—I—

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 Itt Flygt Ab.—366/Cal/91.

—J—

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 MBorgan Crucible Co. PLC.—342/Cal/91.

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 Satake Engineering Co. Ltd.—395/Cal/91.
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 Sengupta, P. (Prof.).—343/Cal/91.
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 Steigerwald Arzneimittelwerk GmbH.—362/Cal/91.
 Stone & Webster Engineering Corporation.—356/Cal/91.

—T—

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 Texaco Development Corporation.—402/Cal/91.
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—V—

Vergola International Pty. Ltd.—390/Cal/91.
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—W—	—S—
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—Y—	Shroff, R. D.—142/Bom/91.
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—A—	Vasantdada Sugar Institute.—121/Bom/91.
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Bradma of Inida Ltd.—120/Bom/91.	America Telephone & Telegraph Co.—354/Mas/91.
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—D—	Board of Trustees.—349/Mas/91, 350/Mas/91.
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—F—	Caterpillar Inc.—416/Mas/91.
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—G—	Chandramohan, M. V. R.—407/Mas/91.
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—L—	Inventio AG.—367/Mas/91.
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—M—	Jacob, R. (Dr.).—352/Mas/91.
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—N—	Kansai Paint Co. Ltd.—379/Mas/91.
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—P—	—L—
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	Mefina S. A.—394/Mas/91.
	Melamine Chemicals, Inc.—368/Mas/91.

Name & Application No.	Name & Application No.
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Morisawa & Co. Ltd.—412/Mas/91.	Baveja, K. K.—464/Del/91.
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Mottoppallil, A.—397/Mas/91.	Bharat Heavy Electricals Ltd.—409/Del/91, 410/Del/91.
—N—	—C—
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—O—	Ceram Tech International Ltd.—442/Del/91.
Ocular Research of Bostom Inc.—399/Mas/91.	Cheema, H. S.—387/Del/91.
—P—	Choudhary, S. (Dr.).—426/Del/91.
Palnitkar, M. R.—388/Mas/91.	Colgate-Palmolive Co.—473/Del/91.
Palnitkar, R. P.—388/Mas/91.	Council of Scientific & Industrial Research.—396/Del/91, 397/Del/91, 398/Del/91, 435/Del/91, 436/Del/91, 437/Del/91, 438/Del/91, 439/Del/91, 440/Del/91, 441/Del/91.
Palnitkar, V. R.—388/Mas/91.	
Prasanthi Fluoride Exchange Systems—369/Mas/91.	—D—
—R—	Davy McKee (Stockton) Ltd.—423/Del/91.
Rockwell International Corporation.—383/Mas/91.	Devtech Inc.—448/Del/91.
—S—	Digital Equipment Corporation.—445/Del/91, 446/Del/91.
Sambamurthi, N.—411/Mas/91.	Director, Forest Research Institute.—402/Del/91.
Sampathkumar, T.—375/Mas/91.	Domino Printing Sciences PLC.—393/Del/91.
Sanyo Electric Co. Ltd.—404/Mas/91.	Dua, S.—425/Del/91.
Sarma, M. S. V.—405/Mas/91.	—E—
Schlumberger Industries.—395/Mas/91.	Exxon Chemical Patents Inc.—416/Del/91.
Schlumberger Industries Inc.—372/Mas/91.	—F—
Sellweger Uster Ag.—408/Mas/91.	FBI Brands Ltd.—428/Del/91.
Senetek, PLC.—409/Mas/91.	—G—
Sepracor, Inc.—386/Mas/91, 390/Mas/91.	GPT Ltd.—458/Del/91.
Shet, G. V.—391/Mas/91.	Grover, P. D.—464/Del/91.
Societe Des Produits Nestle S.A.—365/Mas/91, 366/Mas/91.	Gunnerman, R. W.—459/Del/91.
Sreedharling, M.—384/Mas/91.	Gupta, R.—469/Del/91.
Srinivasan, T.—375/Mas/91.	Gupta, R. K.—395/Del/91.
—T—	—H—
TT Ltd.—351/Mas/91.	Hassenboehler, C. B.—389/Del/91.
Takemoto Yushi Kabishiki Kaisha.—380/Mas/91.	Honda Giken Kogyo Kabushiki Kaisha—467/Del/91.
Transflux Holdings Ltd.—403/Mas/91.	Hughes Aircraft Co.—451/Del/91.
—V—	—I—
Viswanathan, M.—353/Mas/91.	Ide, R. D.—468/Del/91.
—W—	Imperial Chemical Industries PLC.—407/Del/91.
Wirth Maschinen-And Bohrgerate-Fabrik GmbH.—348/Mas/91.	—J—
—Y—	John Mark Tucker.—391/Del/91, 392/Del/91.
Yokohama Rubber Co. Ltd. The.—360/Mas/91.	—K—
—Z—	Kali-Chemie AG.—388/Del/91.
Zellweger Uster AG.—363/Mas/91.	Khetrapal, J. D.—455/Del/91, 456/Del/91.
DELHI : (385/D/91—474/D/91)	—L—
—A—	Lefkowitz, L. R.—457/Del/91.
Airtech Pvt. Ltd.—394/Del/91.	Lubrizol Genetics Inc.—401/Del/91.
Aktiebolaget Astra.—412/Del/91.	—M—
Allied-Signal Inc.—432/Del/91.	Madan, A. K.—464/Del/91.
Alsthom.—452/Del/91.	Mobil Solar Energy Corporation.—454/Del/91.
American Colloid Co.—403/Del/91.	Motorola Inc.—417/Del/91, 418/Del/91.
Anand, V.—447/Del/91.	
Astra Meditec AB.—430/Del/91.	
Avery International Corporation.—415/Del/91.	

Name & Application No.

—P—

Pannevis B. V.—443/Del/91.
 Paul Wurth S. A.—474/Del/91.
 Pfizer Inc.—404/Del/91, 420/Del/91.
 Polyfelt Gesellschaft m.b.H.—466/Del/91.
 Polymerix, Inc.—471/Del/91.
 Premier Brands UK Ltd.—472/Del/91.
 Procter & Gamble Co. The.—385/Del/91, 386/Del/91, 421/Del/91, 422/Del/91, 449/Del/91, 450/Del/91.
 Purolator India Ltd.—427/Del/91.

—R—

Rajan, T. S.—470/Del/91.
 Ranbaxy Laboratories Ltd.—408/Del/91.

—S—

Scientific Design Co. Inc.—405/Del/91.
 Sharma, U. R.—461/Del/91.
 Singh, R.—414/Del/91.
 Standard Oil Co., The.—465/Del/91.

—U—

UOP.—413/Del/91.
 Unes A/S.—399/Del/91.
 Union Carbide Corporation.—453/Del/91.
 University of Sydney, The.—419/Del/91.
 Urban Transportation Development Corporation Ltd.—429/Del/91, 444/Del/91.

—V—

Venkatesan, S.—462/Del/91, 463/Del/91.

—W—

Westinghouse Brake & Signal Holdings Ltd.—406/Del/91.
 Wishart, J. D.—460/Del/91.
 Witco Corporation—411/Del/91.

—Z—

Z C Mines Pty. Ltd.—424/Del/91, 431/Del/91.

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए गए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप है।”

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मूल्य प्रतिमा, भारत सरकार बंक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय होते यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है (अतिरिक्त डाक खर्च)। मूल्य विनिर्देश की आपूर्ति होते मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतिमा यदि कोई हों, के साथ विनिर्देश की टंकित अथवा फोटो प्रतिमा की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार, जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सन्निविष्ट करने के उपरांत उसकी अवायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 108 C₃.

169251

Int. Cl. : C 21C 5/36.

A PROCESS FOR THE REFINING OF METAL.

Applicant : UNION CARBIDE CORPORATION, MANUFACTURES, ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA; WITH OFFICES AT: OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventor : BALKISHAN AGRAWAL.

Application for Patent No. 314/DEL/85 filed on 16th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent office Branch, New Delhi-5.

Claims 2

1. A process for the refining of metal by removing therefrom, impurities in the form of slag consisting essentially of aluminium, silica, CaO and MgO, the ratio of aluminium to silica being equal to a preselected value within a range of 0.1 to 10.0, which comprises heating and decarburizing a molten metal bath by injecting oxygen gas, either alone or in combination with one or more gases such as herein described to reduce the oxidized alloying elements and/or iron from a basic slag characterised by adding to the bath any time during the oxidation period, predetermined amounts of alumina and silicon as fluxes in a combined proportion of from 1 to 99% aluminium and remainder silicon to produce a desired temperature rise in the bath upon completion of the

period of oxidation, completely oxidizing said flux components, adding to the bath any time after the completion of decarburization, aluminium and silicon as reductants to cause a substantially complete reduction of the melt to attain said predetermined ratio of aluminium to silica at the end of the completion of the reducing period, taking into account, the composition of the slag at the end of the oxidation step, and if the ratio of aluminum to silica after said reducing steps is less than said preselected ratio, adding to the melt predetermined proportions of aluminum and silica after the completion of said decarburization step to attain said preselected ratio of from 0.1 to 10.0 of aluminum to silica and thereby obtain a refined metal.

Comp. Specn. 34 Pages

Drawing—Nil

IND. CLASS : 127I & 131A₂.

169252

Int. Cl.⁴ : E21B 15/02.

A DEVICE FOR POSITIONING, ACTIVATING AND CONNECTING FUNCTIONAL MODULES OF A SUB-SEA PRODUCTION STATION.

Applicant : SOCIETE NATIONALE ELF AQUITAINE (PRODUCTION), A FRENCH COMPANY, OF TOUR AQUITAINE, 92080 PARIS LA DEFENSE, FRANCE.

Inventors : YVON CASTEL & MICHEL IATO.

Application for Patent No. 382 Del 85 filed on 03 May 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A device for positioning, activating and connecting functional modules of a sub-sea production station, characterised in that it comprises a self supporting square or rectangular frame (1) on which is mounted an orientable central mast (20) having at its end a means of connection (26) with a stringer train (28) and comprising an articulated telescopic jib (30) having at its end and automatic mechanical action connector (32), said frame (1) comprising on the bottom a mechanical connector (5) capable of gripping and locking a fixed mandrel (54) or that of a module to be positioned and comprising guide means (2) for lowering the device to the sub-sea station and for positioning (3) the device with respect to the module to be positioned, said device further comprising a multiconnector (6) for the electrohydraulic connection receptacle (54) carried by the module to be positioned (70), electrohydraulic umbilical ducts and cables for control and energy transmission from the surface connected, on the one hand, to said multiconnector (16) and, on the other, to the automatic mechanical action connector (32) carried at the end of the jib (30), as well as display means (33, 36) transmitting the images to the surface.

Comp. Specn. 13 Pages

Drawing 1 Sheet.

IND CLASS : 131 A₁ & 127 I

169253

Int. Cl.⁴ : E21B 15/02.

AN OIL PRODUCTION APPARATUS FOR A SUB-SEA STATION OF MODULAR DESIGN.

Applicant : SOCIETE NATIONALE ELF AQUITAINE (PRODUCTION), A FRENCH COMPANY, OF TOUR AQUITAINE, 92080 PARIS LA DEFENSE, FRANCE.

Inventor : VILHEME LADECKY.

Application for Patent No. 383 Del 85 filed on 03 May 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

14 Claims

An oil production apparatus for a subsea station of modular design comprising a base frame (1) having in at least one

zone one or more locations for modules, guide bases (2) having guide members (3) in said one zone fixed to the frame and intended to receive a modular production unit (20) including a christmas tree (21) comprising, in combination :

said base frame having at least a second zone;

a manifold frame (10) at said second zone,

said manifold frame having one or more guide bases (17), (17') having guide members (3a) for receiving one or more functional modular units;

one or more modular units (30, 40, 50) having guide sleeve members adapted to cooperate with said guide members (3a);

each guide base (17) (17') and each unit (30, 40, 50) having a mandril (12);

each modular unit having a mechanical connector (16) for mating with a mandril (12) to allow locking and unlocking of a modular unit with its associated guide base or with modular unit;

each modular unit having upstanding internal guide columns (18) at the top thereof;

each modular unit including guide sleeves for reception of said guide column (18) of a modular unit adapted to be vertically stacked thereon;

whereby production control units (20) are separate from units stacked thereon and whereby said manifold frame (10) may support units in said second zone in selected stacked relation in which units requiring more frequent service are located on top.

Comp. Specn. 18 Pages

Drawing 1 Sheet.

IND. CLASS : 68 E₁.

169254

Int. Cl.⁴ : G05B 15/02.

ELECTRONIC OR SOLID STATE REGULATOR FOR DYNAMO CIRCUITS WHICH INCLUDE BATTERY.

Applicant : EICHER GOODEARTH LIMITED, 212, DEENDAYAL UPADHAYA MARG, NEW DELHI-110 002, INDIA AN INDIAN COMPANY REGISTERED UNDER THE COMPANIES ACT, 1956.

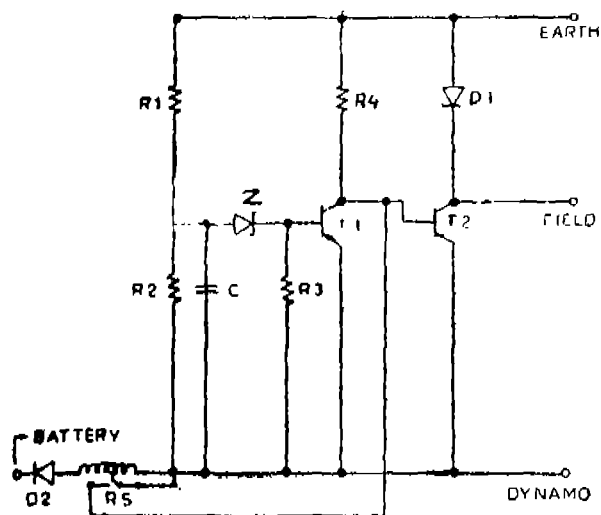
Inventor : HARJIT SINGH.

Application for Patent No. 769/Del/1986 filed on 28th August, 1986.

2 Claims

An Electronic or Solid State Regulator for dynamo circuits which include battery comprising a Transistor T₁, the collector of Transistor T₁ being connected to the Earth terminal of the said Regulation, through a Resistor R₄, the Emitter of Transistor T₁ being connected to the Dynamo terminal and the base of Transistor T₁ being connected to the Dynamic terminal through a voltage sensing circuit, another Transistor T₂, the Emitter of which is connected to the Dynamo terminal, the collector of Transistor T₂ being connected to the Earth terminal through a Diode D₁ and also connected to the Field terminal, the base of Transistor T₂ being coupled with the collector of Transistor T₁ and a current sensing circuit to charge the battery, said voltage sensing circuit having two Resistors R₂ and R₃ and a capacitor C inter-connected in parallel between the base and the emitter of Transistor T₁ and a Zenor Diode linking the said capacitor and the Resistor R₃, the said voltage sensing circuit being connected to the Earth terminal through Resistor R₁, the said current sensing circuit, with one terminal of the battery being connected to the dynamo terminal through a diode and a current sensing coil

which operates on a reed switch which is integrated with the switching circuit of the voltage regulator.



Comp. Specn. 9 Pages

Drawing 1 Sheet

IND. CLASS : 116 G.

169255

Int. Cl⁴ : B62 B1/18

WHEEL BARROW

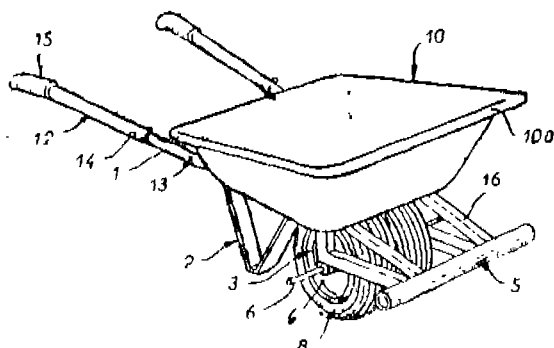
Applicant & Inventor : PIERRE DONZE, OF CLOS VAREGUES, ST-ANDRIEUX, 76930-OCTEVILLE S/MER, FRANCE AND JEAN-PIERRE FRANCK, OF 3 RUE DES SONGES, 68850-STAFFELFELDEN, FRANCE, BOTH FRENCH CITIZENS.

Application for Patent No. 831/Del/86 filed on 19th September 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Branch, New Delhi-5.

5 Claims

A wheelbarrow comprising a frame (1a) having two arms (1) defining handles, supporting legs (2), a load container (10) and a wheel support structure (3) comprising a wheel axle, characterised in that the wheel axle (6) is located substantially in vertical alignment with the center of gravity of the load container (10) in the operative position of the wheelbarrow, said axle being removably mounted between two bearings (4), and an abutment member (5) disposed at the front of the wheelbarrow, spaced from the front edge (10a) of the container and extending transversely to each side of the longitudinal center line of the wheelbarrow.



Comp. Specn. 11 Pages
2-247GI/91

Drawing 2 Sheets

Ind. CLASS : 154 D.

169256

Int. Cl⁴ : B41F 17/00.

METHOD FOR PREPARING PRINTED GRAINED METALLIC PLATE FOR THE USE IN THE OFFSET PRINTING PROCESS AND THE PRINTED PLATE SO PREPARED.

Applicant & Inventor : HANS RAJ TANEJA, B-IV/77, AMAR COLONY, LAJPAT NAGAR-IV, NEW DELHI-110 024, AN INDIAN NATIONAL.

Application for Patent No. 930/DEL/86 filed on 22 Oct. 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

13 Claims

A method for preparing printed grained metallic plate for use in Offset printing process which method comprises :

- (i) Typing directly the matter to be printed on the grained metallic plate by an ordinary typewriter, electronic typewriter or electronic computerized typewriter by using carbon paper ribbon for such typing, or
- (ii) Tracing manually or mechanically drawings, sketches, diagrams and the like or by writing manually or mechanically onto the grained metallic plate by using carbon paper, or water proof ink, or
- (iii) Printing directly the matter to be printed on the grained metallic plate by Letter press printing method, or
- (iv) Printing directly the matter to be printed on the grained metallic plate by means of a rubber stamp/finger impressions using the offset printing ink or the Letter press printing ink, or
- (v) Printing directly on the grained metallic plate on an Offset printing machine by use of the grained metallic plate prepared by any of the methods as stated in (i), (ii), (iii) or (iv) herein above, or
- (vi) Printing directly the matter to be printed on the grained metallic plate by a combination of any of the methods stated in (i) to (v) herein above,

characterised in that the printed grained metallic plate prepared as above is rubber with a mixture of comprising Phosphoric acid and water for a period not exceeding 5 minutes.

(Provisional Specification 9 pages).

(Complete Specification 21 Pages).

Ind. CLASS : 187 C₃.

169257

Int. Cl⁴ : H04M 3/00.

A COMBINATION OF SYNTHESIZER AND A READ-ONLY MEMORY (ROM) IN BROADCAST TELEPHONE SYSTEM.

Applicant : INTERNATIONAL MOBIL MACHINES CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF PENNSYLVANIA OF 100 NORTH 20TH STREET, PHILADELPHIA, PENNSYLVANIA 19103, U.S.A.

Inventor : ERIC PANETH.

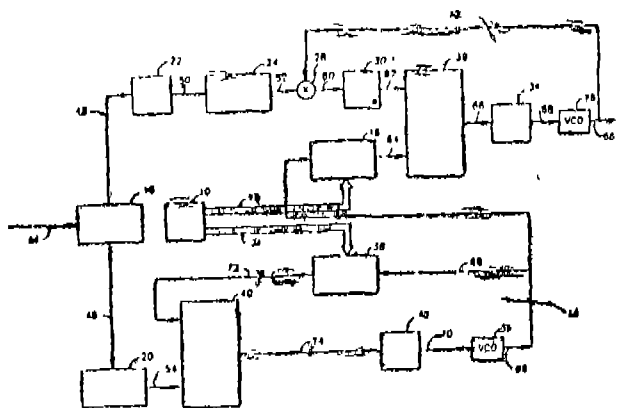
Application for Patent No. 940/DEL/86 filed on 23 Oct. 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A combination of synthesizer for generating a signal at an assigned frequency and a read-only memory (ROM) storing

a plurality of sets of first and second signals associated with different predetermined assignable frequencies in a broadcast telephone system said synthesizer comprising a first phase-locked loop (12) for generating an output signal at a frequency within a first predetermined range including the plurality of assignable frequencies in response to the combination of a first frequency reference signal having a predetermined frequency and a second reference frequency signal having a frequency within a second predetermined range and driven from a second phase-locked loop (14) connected thereto, said first phase-locked loop (12) having a first band-pass filter (34) with a passband minimizing phase noise and electronic noise due to microphonics; said second phase-locked loop (14) for generating a third reference frequency signal within a third predetermined range in response to a combination of a first signal from said ROM associated with a predetermined assignable frequency and a fourth frequency reference signal having a predetermined frequency, wherein said second phase-locked loop (14) has a second band-pass filter (42) with a passband minimizing phase noise and electronic noise due to microphonics; and a frequency divider (38) coupled to said ROM for dividing the frequency of the output signal from the second phase-locked loop (14) by an amount indicated by a second signal from the ROM associated with said given assignable frequency to provide a second reference frequency signal to the first phase-locked loop (12).



Compl. Specn. 13 Pages

Drg. 1 sheet

Ind. CLASS : 131 A₃

169258

Int. Cl.⁴ : E21B 43/00.

WELL PENETRATION APPARATUS AND METHOD OF FARMING A PUNCHED WELL CASING.

Applicant & Inventor : HERMAN JOSEPH SCHELLAS-TEDE, 342 DUPLERIER AVENUE, NEW IBERIA, LOUISIANA 70560, UNITED STATES OF AMERICA, AN AMERICAN NATIONAL.

Application for Patent No. 1071/Del/86 filed on 5th December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A well penetration apparatus for use in a well having a casing said penetrator comprising :

- (a) an elongated housing having an upper end and a lower end, said upper end being connectable to surface mounted supporting means and said housing being adapted so as to be capable of being moved axially in the casing of a well;
- (b) an outwardly movable punch member having an inner end and an outer end, said outer end having casing cutting means for cutting an opening in a casing when moved forcefully against such casing;

- (c) guide means supporting said punch member for movement relative to said elongated housing between a retracted position in which said outer end of said punch member is positioned substantially within the confines of said elongated housing and an extended position in which said outer end of said punch member is positioned outwardly from said carrier body;
- (d) said elongated housing and said punch members being adapted so that said punch means can be positioned within a well casing for movement therein when said punch means is in its retracted position but wherein said outer end of said punch means extends outwardly beyond the outer surface of said casing when said punch member is in its extended position;
- (e) Power actuated punch drive means for moving said punch member between its retracted and extended positions; and
- (f) high pressure liquid jet providing means having a source of high pressure working fluid connected to nozzle means mounted for movement in said punch member between a retracted position in which said nozzle means is positioned internally of said punch member and extended position in which said nozzle means is positioned externally of said punch member for discharging a high pressure jet outwardly beyond the outer end of said punch member for cutting and removing the surrounding earth formation.

Compl. Specn. 29 Pages.

Drg. 12 Sheets

Ind. Cl. : 40 B.

169259

Int. Cl.⁴ : B01J 38/12 & 38/22.

METHOD AND APPARATUS FOR REGENERATION OF HYDROCARBON CONVERSION CATALYST.

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA WITH ITS PRINCIPAL OFFICE LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS-60016, U.S.A.

Inventor : ARTHUR RAYMOND GREENWOOD.

Application for Patent No. 1096/DEL/86 filed on 15 Dec 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Officer Branch, New Delhi-110 005.

8 Claims

A method for regeneration of spent catalyst particles used in hydrocarbon conversion reactions comprising :

- (a) contacting spent catalyst particles passing through a burn zone, by means of gravity, maintained at a coke-oxidizing temperature, with a regenerating gas comprising oxygen;
- (b) removing water from said catalyst in a catalyst drying zone after leaving from said burn zone by means of gravity;
- (c) reducing temperature of said catalyst particles in a catalyst cooling zone after leaving from said catalyst drying zone by means of gravity; the burn zone, the drying zone and the cooling zone are located in a vertically positioned vessel;
- (d) passing a cooled and dried air stream upward through said catalyst cooling zone in countercurrent contact with said catalyst thereby cooling the catalyst and heating said air stream;
- (e) heating said air stream to a coke oxidizing temperature, after it leaves said catalyst cooling zone, in an air heating zone located in the same vessel as said catalyst cooling zone;

(f) removing water from the catalyst by passing said air stream leaving said air heating zone upward through said catalyst drying zone in countercurrent contact with said catalyst;

(g) passing said air stream leaving said drying zone into said burn zone; and

(h) withdrawing regenerated, dried and cooled catalyst particles from the catalyst cooling zone.

Complete Specification 18 Pages

Drawing 1 Sheet

Ind. Cl. : 195 B & D.

169260

Int. Cl.⁴ : F16K 1/226, 1/42.

IMPROVED VALVE PLUG FOR A FLUID CONTROL VALVE.

Applicant : WHITE CONSOLIDATED INDUSTRIES, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, WITH OFFICES AT 1170 BERE A ROAD, CLEVELAND, OHIO-44111, UNITED STATES OF AMERICA.

Inventor : ROGER ERWIN JOHNSON.

Application for Patent No. 1106/DEL/86 filed on 16 Dec. 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

An improved valve plug (16) for a fluid control valve (10) which comprises :

(a) a main valve plug member (24),

(b) a seal forming member (25) made of a durable resilient material of the kind such as described mounted on said main valve plug member (24) in axially stacked relationship thereto whereby said seal forming member (25) and said main valve plug member (24) together provide a substantially smooth, continuous outer surface, said seal forming member (25) comprising a hollow element (34) composed of

(i) a wall member (35) the outer surface of which forms with said main plug member (24) said substantially smooth, continuous outer surface, and

(ii) two spaced apart, inwardly directed transverse wall sections (36, 37) each connected from one end thereof to said wall member (35) with their opposite ends being free, said wall member (35) being located between said transverse wall sections (36, 37) and constituting that portion of said hollow element (34) having minimum wall thickness,

(iii) an interior space defined between said wall member (35) and said transverse wall sections (36, 37), and

(iv) a packing material (41) tightly compressed within said interior space; and

(c) means (26) provided in abutment with said seal forming member (25) for compressing said seal forming member (25) upon shut-off of the said fluid control valve (10) whereby the free ends of said transverse wall sections (36, 37) are resiliently crimped towards each other thereby compressing and urging said packing material (41) towards said wall member (35) constituting the portion of minimum thickness of said hollow element (34) and causing said wall member (35) to deform into an outwardly directed bulge which contacts said fluid control valve (10) thereby forming a leak-tight seal round said valve plug (16).

Complete Specification 23 Pages

Drawing 2 Sheets

Ind. Cl. : 140B3.

169261

Int. Cl.⁴ : C10 G 73/02.

A PROCESS FOR THE DEWAXING OF WAXY HYDROCARBON OILS.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT FLORHAM PARK, NEW JERSEY UNITED STATES OF AMERICA.

Inventor : THEODORE HARVEY WEST.

Application for the Patent No. 252/DEL/86 filed on 18th March, 1986.

Divisional to Application No. 77/DEL/83 filed on 8th February, 1983.

Ante dated to 8-2-83.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A process for the dewaxing of waxy hydrocarbon oils to produce dewaxed hydrocarbon oils characterised in that methyl tertiary butyl ether in conjunction with a conventional dewaxing anti-solvent is mixed in a manner as herein described with said oil to form a slurry which is chilled in a manner as herein described to provide solid particles of wax and a mixture of dewaxed oil, methyl tertiary butyl ether and said anti-solvent and separating said dewaxed oil from said mixture in a manner known per se

Complete Specification 17 Pages

Drawing one Sheet

Ind CLASS : 48C.

169262

Int. Cl.⁴ : H01B 3/42, 13/24, 17/62, B32B 7/06, 15/02.

A PROCESS FOR THE PRODUCTION OF AN INSULATED CABLE.

Inventor : BP CHEMICALS LIMITED, A BRITISH COMPANY OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SW1W 0SU, ENGLAND.

Inventor : JACQUES SCHOMBOURG.

Application for Patent No. 1060/DEL/85 filed on 16th December, 1985.

Convention date 22nd December/8432608/U.K.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent office Branch, New Delhi-5.

6 Claims

A process for the production of an insulated cable having an electrical core conductor and arranged substantially coaxially about the electrical core conductor three layers of polymer-based material of the kind such as herein defined comprising an intermediate layer (4) between a first layer (3) and a second layer (5) the intermediate layer (14) being strippably bonded to the first layer (3) and fully bonded to the second layer (5) such that the second layer (5) together with substantially all of the intermediate layer (4) is readily strippable from the first layer (3) which method comprises extruding about the electrical core conductor in sequential order (A) a first layer (3) of an insulating material of the kind such as herein defined (B) an intermediate layer (4) of at least partially insulating material of the kind such as herein defined and (C) a second layer (5) of a semi-conductive shielding material of the kind such as herein defined and then curing the cable by any conventional method such as hereinbefore defined.

Compl. Specn. 19 Pages.

Drp. 1 Sheet

IND. CLASS : 80 F.

169263

Int.Cl.4 : B01D 43/00.

DEVICE FOR FILTERING A SUSPENSION OF PARTICLES IN A LIQUID.

Applicant : COMPAGNIE GENERALE D'ELECTRICITE OF 54 RUE LA BOETIE 75382 PARIS CEDEX 08, FRANCE A FRENCH CORPORATION.

Inventor : STANISLAS GALAJ.

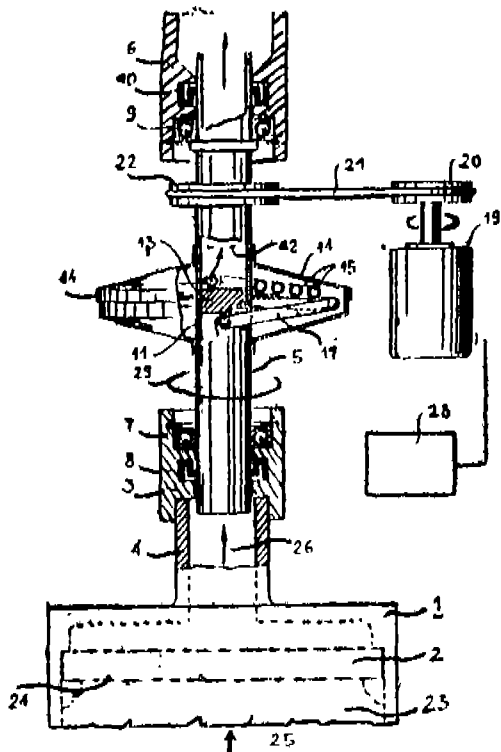
Application for Patent No. 335/DEL/86 filed on 14 Apr. 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A device for filtering a suspension of particles in a liquid, said device comprising :

a porous membrane (2) with a liquid having particles in suspension disposed on one side (24) and in contact with said one side (24) of said membrane; means (25) for passing the liquid from said one side of said membrane to opposite side of said membrane so as to obtain a flow of filtered liquid on said opposite side of the membrane whereby particles collect on said one side of said membrane (2) to clog the pores thereof; means (19, 28) for exerting a momentary pressure on the opposite side of said membrane (2) such as to cause filtered liquid to flow in a reverse direction to thereby cause said particles collected on said one side of said membrane (2) to return to said suspension liquid; Said opposite side of the membrane (2) having means (4, 5) for passing filtered liquid to a first (18) end of a conduit (15) connected thereto, said conduit being wound around an axis (1) whereby the liquid is caused to flow relative to the conduit (15) towards its second end (16) in one direction (27) about said axis (1); means (22, 21, 20, 19) connected to said conduit for progressively rotating said conduit (15) about said axis (1) in a direction opposite to the direction of the relative flow of said liquid in the conduit (15) until said conduit (15) reaches a speed of rotation having a predetermined constant (V-v) value greater than the speed of said relative flow; and brake means (not shown) connected to said means (19, 20), 21, 22, 28) for rotating said conduit, said brake means for suddenly stopping rotation of said conduit (15).



IND. CLASS : 107 B.

169264

Int. Cl.4 : F02B 29/00.

A TWO STROKE CYCLE SPARK IGNITED ENGINE.

Applicant : ORBITAL ENGINE COMPANY PROPRIETARY LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF WESTERN AUSTRALIA, OF 4 WHIPPLE STREET, BALCATT, WESTERN AUSTRALIA, AUSTRALIA.

Inventors : MICHAEL LEONARD McKAY & STEVEN ROSS AHERN.

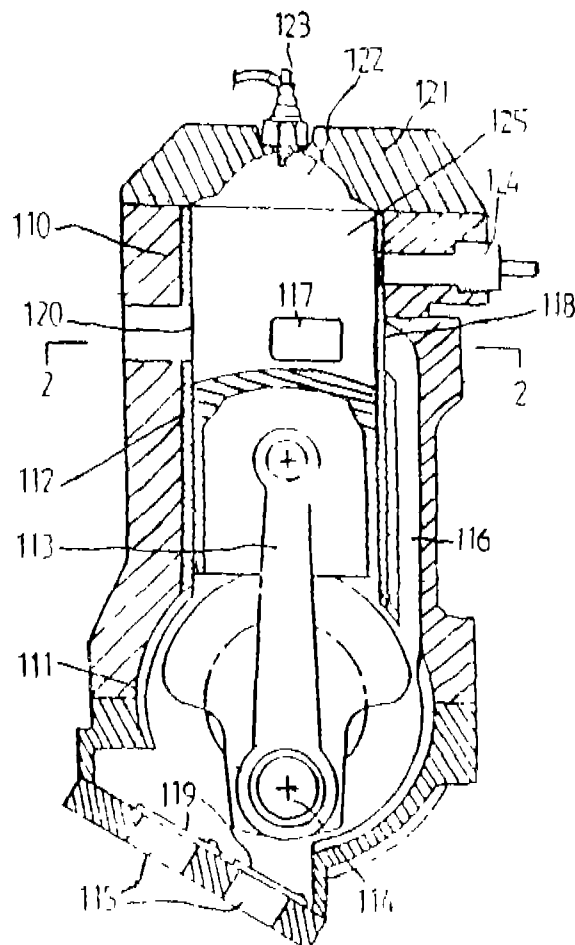
Application for Patent No. 646/DEL/1986 filed on 18 July 1986.

Convention dates 19 Jul., 16 Aug., 11 Nov., 1985/PH 1559, PH 1991, PH 3344/AUSTRALIA.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A two stroke cycle spark ignited engine having a cylinder (110) in which a combustible charge is prepared, a cylinder head (121) closing one end of said cylinder, an ignition means mounted in said head to ignite the combustible charge, a piston (112) supported to reciprocate in said cylinder, and an exhaust port in the wall of the cylinder spaced in the axial direction from the cylinder head, characterised in that a single nozzle (124) through which fuel is injected to the cylinder is located in the cylinder wall between the level of the exhaust port and the cylinder head said nozzle (124) comprising orifices each orientated in a respective direction to direct the fuel in the form of at least two individual stream (30, 32) with a first stream of the fuel directed towards the ignition means in the cylinder head and a second stream of the fuel directed into that portion of the cylinder on the opposite side of a diametral plane of the cylinder which intersects the location of injection of the fuel to that of the cylinder.



IND. CLASS : 107 I.

169265

7 Claims

Int. Cl.⁴ : F01D 13/00.

IMPROVED DEVICE WITHIN THE CARBURETTOR OF AN INTERNAL COMBUSTION ENGINE FOR THE CONTROLLED AUTOMATIC DELIVERY OF ADDITIONAL FUEL MIXTURE TO SAID ENGINE.

Applicant : PIAGGIO & C.S.P.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A CIOCHI 60-GENOVA, ITALY.

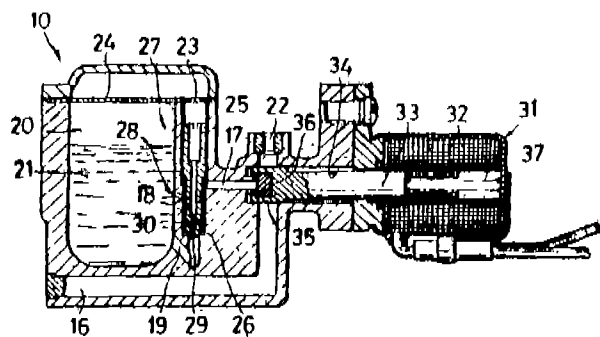
Inventor : MARCO NUTI.

Application for Patent No. 838/DEL/86 filed on 23rd September, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

Improved device incorporated within the carburettor of an internal combustion engine for the controlled automatic delivery of additional fuel mixture to said engine, e.g. when starting said engine in cold condition, said carburettor (10) which is connected to the combustion chamber of said engine being provided therein with a venturi (11), the outlet from said venturi (11) being connected to the intake duct of said engine for delivery of fuel thereto, at least one fuel inlet (13) leading into said venturi (11), control valve means (14) within said venturi (11) for regulating the passage of said fuel mixture through said venturi (11), and means (16) connected to said inlet (13) for spraying fuel mixture into said venturi (11), said fuel spraying means (16) comprising at least one duct (16) in communication between a fuel source (20, 21) and said venturi inlet (13), said



Compl. Specn. 15 Pages.

Drgs 2 Sheets

IND. CLASS : 72 BC.

169266

Int. Cl.⁴ : F42B 3/00.

EXPLOSIVE SHELL.

Applicant : ROYAL ORDNANCE PLC., A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNITED KINGDOM, OF GRIFFIN HOUSE 5 THE STRAND, LONDON WC2N 5BB, ENGLAND.

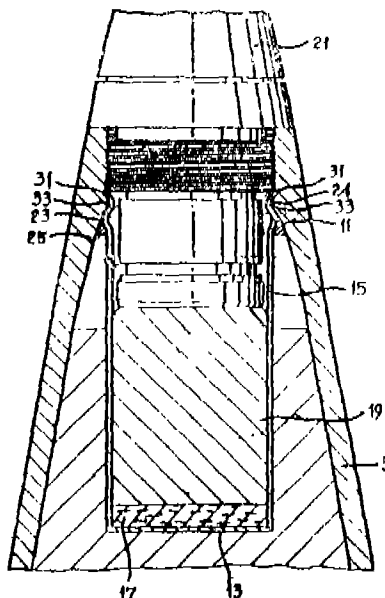
Inventor : FREDERICK MYLES YOUNG.

Application for Patent No. 885/Del/86 filed on 3rd October, 1986.

Convention date 22nd October, 1985/8526046/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

An explosive shell comprising an outer casing (3) having an opening, a neck portion (7) adjacent to the opening, a screw thread (9) being provided in the internal wall of the neck portion (7) of the casing, and a region (11) of increased average internal diameter in its inner wall beyond the threaded portion, a charge (5) of high explosive material partially filling space inside the casing (3) an inner case (15) located between the charge (5) and the neck portion (7) of the outer casing (3) said case (15) providing a cavity for a detonation device, (19) the case (15) being made of a malleable material and being swaged into the neck portion (7) of the outer casing (3) and into part of the region (11) of the internal wall of the casing (3) which has an increased average internal diameter.



Compl. Specn. 12 Pages.

Drgs. 2 Sheets

IND. CLASS : 83 A

169267

Int. Cl.⁴ : A01J 15/00.

A PROCESS FOR THE PREPARATION OF HARD BUTTER HAVING REDUCED 9, 10-DIHYDROXY STEARIC ACID CONTENT FROM SAL FAT USEFUL AS COCOA BUTTER EXTENDER.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SUNKI REDDY, YELLA REDDY & JAMBUR VENKATESHIAH PRABHAKAR.

Application for Patent No. 973/DEL/86 filed on 05 Nov. 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the preparation of hard butter having reduced 9, 10 dihydroxy stearic acid content from sal fat, useful as cocoa butter extender which comprises dissolving the sal fat in an organic solvent selected from food grade hexane and petroleum ether at ambient temperature and Separating the solid fraction by known methods.

Compl. Specn. 9 Pages.

IND. CLASS : 32E.

169268

Int. Cl.⁴ : C08F 110/00.**PROCESS FOR THE PREPARATION OF LINEAR ALTERNATING COPOLYMERS OF CARBON MONOXIDE AND ETHYLENE.**

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V A NETHERLANDS COMPANY OF CAREL VAN BYLANDTLAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS.

Inventors : HENRICUS MARIA JOHANNES BRONES & MAARTEN MARINUS GEUZE.

Application for Patent No. 1035/DEL/86 filed on 26th November, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

Process for the preparation of linear alternating copolymers of carbon monoxide and ethylene, which comprises copolymerising a mixture containing carbon monoxide and ethylene, in the presence of a catalyst as herein described followed by washing the obtained copolymers with an organic solvent of the kind as hereing described and drying them in a manner known per se, characterised in that the washing and drying are carried out in the absence of molecular oxygen as herein described.

Compl. Specn. 11 Pages.

Drg. 1 Sheets

Ind. Cl. : 119A & F.

169269

Int. Cl.⁴ : D03D 45/00 & 47/00.**A JET LOOM HAVING APPARATUS FOR REMOVING A FAULTY WEFT FROM A SHED OF THE JET LOOM AFTER STOPPAGE AND FOR RESTARTING THE LOOM THEREAFTER.**

Applicant : TSUDAKOMA KOGYO KABUSHIKI KAISHA, of 18-18 Nomachi 5-chome, Kanazawa-Shi, Ishikawa-ken, Japan, a Japanese company.

Inventor : MITURU SUWA.

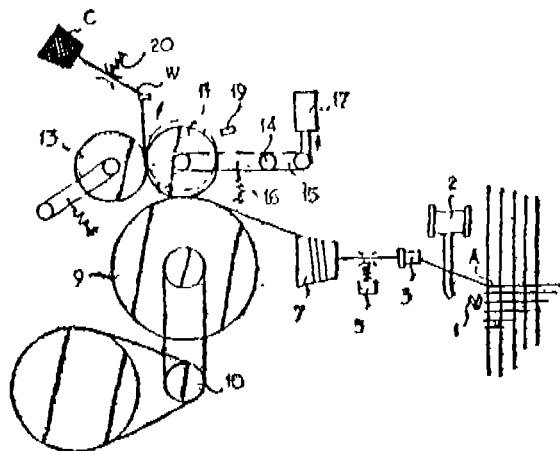
Application for Patent No. 1042/DEL/86 filed on 28 Nov 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent office Branch New Delhi-110005.

Claims 2

A jet loom having apparatus for removing a faulty weft from a shed of the jet loom after stoppage and for restarting the loom thereafter, said loom having a supply means (e) for delivery of weft (w) to said shed (A), a pair of nip rollers (11, 13) adjacent said supply means (C) for feeding said weft (W) through the nip thereof, one of said nip rollers (11) being movable from a position in contact with a drive roller (9) to a position out of contact with said drive roller (9), said drive roller (9) for driving said one nip roller (11) when in engagement therewith and for feeding said weft (W) from the nip rollers (11, 13) to weft reservoir unit (7) adjacent said drive roller (9), a main nozzle (3) adjacent said weft reservoir (7) and a faulty weft removal unit (2) between said main nozzle (3) and said shed (A), said faulty weft removal unit (2) for removing a faulty weft from the shed (A) and of residual weft in said weft reservoir (5) upon activation thereof prior to severing the faulty weft from the supply means (C), characterised by detecting means (19) for sensing delivery of the weft (W) from the supply means (C) upon activation of the weft removal unit (2) and for generation of detection signals, said detecting means (19) being provided adjacent said one nip roller (11) to detect rotation thereof, said rotation being indicative of supply of weft from said supply means (C) and means for inhibiting (5) restart of the loom until after

complete removal of the faulty weft from the shed (A) and upon confirmation of the presence of said detection signals.



(Complete specification 10 pages Drawing sheet 1)

Ind. Cl. : 116 C.

169270.

Int. Cl.⁴ : B65G 15/00.**A PORTABLE APPARATUS FOR FASTENING ON AN END OF A CONVEYOR BELT A ROW OF STIRRUP-LINKS PROVIDED WITH FASTENING STAPLES.**

Applicant : GORO S.A., a French company, of Avenue de Sylvie, 77500 Chelles, France.

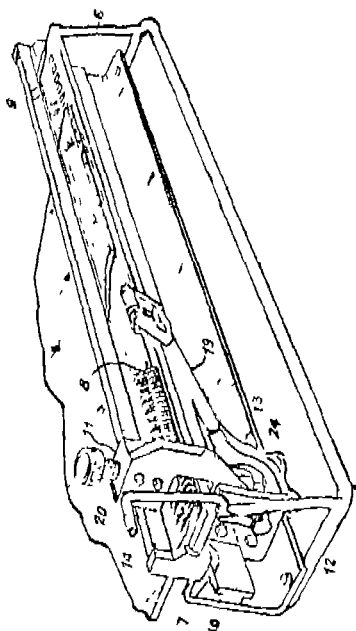
Inventor : JEAN-FRANCOIS SHICK.

Application for Patent No. 1067/DEL/86 filed on 04 Dec 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent office Branch New Delhi-110005.

Claims 8

A portable apparatus for fastening on an end of a conveyor belt (1) a row (8) of stirrup-links (2) provided with fastening staples (3) placed in a standby position, each fastening staple (3) having pointed ends (4) and a head, said apparatus comprising : an operating head (11) slidably mounted on a plate (7) for guiding said fastening staples (3); a staple-inserting punch (15) and a movable die (14) provided on each side of the row (8) of to be fastened stirrup-links (2) for clinching the pointed ends (4) of the staples (3); a ratchet mechanism (not shown) for producing step-by-step motion of the operating head (11) opposite to the to be fastened stirrup-links (2); wherein the movable die (14) is made up of two separate and distinct portions (14 a & 14 b), a first portion (14 a) of said die (14) being placed opposite to the staple-inserting punch (15) and provided with grooves (17) having sloping bottom faces for initial clinching of the pointed ends (4) of the fastening staples (3) of a predetermined stirrup-link (2) and a second portion (14 b) of said die (14) being provided with grooves (18) for final clinching of the pointed ends (4) of the fastening staples (3) of the following stirrup-link (2) which have already been subjected to initial clinching; and wherein a second punch (16) is provided opposite to said second portion (14 b) of the die (14), which second punch (16) is for penetrating into the corresponding opening (9) of the staple guiding plate (7) both in order to arrest the operating head (11) in the exact position desired and in order to serve as an anvil for bearing against the head of each corresponding staple (3) at the time of final clinching of the staple points (4), said second punch (16) being connected to an actuating lever (20), which also actuates the stepping-motion ratchet mechanism (not shown) while another lever (19) controls the operation of the staple-inserting punch (15) and the operation of the die (14).



(Complete specification-25 pages Drawing sheets-8).

Ind. Cl. : 103

169271

Int. Cl.4 : C23F 15/00.

PROCESS FOR PREPARING PROTECTIVELY COATED IRON AND STEEL PRODUCT.

Applicant : INSTITUT DE RESEARCH DE LA SIDERURGIE FRANCAISE (IRSID), a French Company of voie Romaine, 57210 Maizières-les-Metz, France.

Inventor : DANIELE QUANTIN & FRANCISCO GALDON.

Application for Patent No. 678/DEL/87 filed on 30th January 1987.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent office Branch New Delhi-110005.

Claims-4

A process for the preparation of a protectively coated iron and steel product which comprises subjecting a hot rolled iron and steel product which is at a temperature of from 900 to 1000°C to a controlled accelerated cooling to a temperature of 550 to 600°C to form on the surface of said iron and steel product an adherent and rough layer of scale, the resultant thickness of the scale being of a mean thickness of about 84 μm and being less than the threshold of adherence characteristic of the metal of which the product is made and of its temperature at the end of rolling and then depositing directly in any known manner a protective material such as herein described on the layer of said scale.

(Complete Specification-14 pages Drawing one Sheet)

Ind. Cl. : 167 E.

169272

Int. Cl.4 : B03 9/00 & 9/04.

A DRESSING TABLE FOR SEPARATING A MIXTURE OF PARTICULATE ORES AND/OR OTHER SOLID MATERIALS.

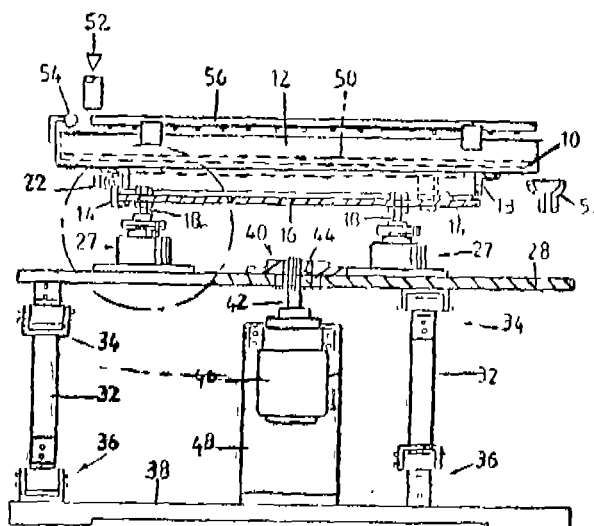
Applicant & Inventor : JOHN MAURICE FLETCHER, a British Citizen of 373 Norwood Road, London SE27 9BL, ENGLAND.

Application for Patent No. 557/DEL/87 filed on 01 JUL. 1987.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent office Branch New Delhi-110005.

CLAIMS 13

A dressing table for separating a mixture of particulate ores and/or other solid materials containing fractions of different density and/or particle size carried in a liquid comprising a deck (10) with raised riffles (50) therein, deck rotation means (13) connected to said deck (10) to allow selected rotation of the deck (10), the feed inlet (52), the wash liquid inlet (56, 54) and the launders (57) thereof in a plane, about an axis normal to the deck (10) through an arc of up to 60 degrees; drive means comprising a motor (46) which has an eccentric, offset, shaft (42) to impose planner orbital motion, which is continuous and uniform, on the deck (10) and to impose planar, orbital motion which is continuous and uniform on each riffle (50); deck support means (14,16) to support the deck (10) and comprising a movement distributor plate (28) having a selfaligned, smooth bearing (40) which receives the eccentric, offset, shaft (42), the movement distributor plate (28) supporting a tripod support means (18,19,20,25) each leg (20,25) of the tripod support means engaging in a self-aligned smooth bearing (26) mounted on the movement distributor plate (28), the tripod support means (18,19,20,25) permitting selected variation in the tilt of the deck (10) about longitudinal and lateral axes; rotation lock means (22, 24) to lock the deck (10), in a selected rotational position to maintain in selected acute angle between the riffles (50) and the natural flow path of the liquid over the deck (10).



(Complete Specification-21 Pages Drawing Sheets-9)

Ind. Cl. : 188.

169273

Int. Cl.4 : C23C 22/12, 22/34 & 30/00.

AN AQUEOUS ZINC CHLORIDE BASED FLUX FOR TREATING FERROUS ARTICLES.

Applicant : BIEC INTERNATIONAL INC., a corporation organised under the laws of the State of Delaware, USA of Park Plaza, 3400 Bath Pike, Bethlehem, Pennsylvania 18017, U.S.A.

Inventors : JAMES EDGAR McNUTT, ROBERT JOSEPH SCOTT AND CHARLES WILLIAM WELCH.

Application for Patent No. 780/DEL/87 filed on 03 SEPT. 1987.

Divisional to Application No. 01/DEL/85 filed on 01 JAN, 1985.

Ante dated to 1 January 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent office Branch New Delhi-110005.

CLAIMS 5

An aqueous zinc chloride based flux for treating ferrous articles, said flux consisting essentially of 91 to 98.5 percent by weight zinc chloride, from 1.5 to 9 per cent by weight ammonium chloride and, based on zinc chloride and ammonium chloride, from 0.6 to 3 percent by weight fluoride ions in the form of a fluoride compound such as herein described.

(Complete Specification-10 Pages).

Ind. Cl. : 39L.

169274

Int. Cl.⁴ : C01F 7/02.

IMPROVED PROCESS FOR THE PREPARATION OF ALUMINA ACCORDING TO THE BAYER TECHNIQUE.

Applicant : THE BROKEN HILL PROPRIETARY COMPANY LIMITED, a company incorporated under the laws of the State of Victoria, of 140 William street, Melbourne, in the state of Victoria, Commonwealth of Australia.

Inventors : DOMNICUS ADRIANUS JOHANES SWINKELS & KEVORK CHOZADJIAN.

Application for Patent No. 54/Del/88 filed on 21 January 1988.

Convention date 03 May 1984/PG/4817/Australia.

Divisional to Application No. 371/Del/85 filed on 30 April 1985.

Ante dated to 30 Apr. 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

An improved process for the preparation of alumina according to the Bayer technique which comprises :

digesting bauxite containing organic impurities with a sodium hydroxide solution to form a first solution containing sodium aluminate and said organic impurities;

precipitating aluminium hydroxide from said sodium aluminate-containing solution to provide precipitated aluminium hydroxide and a second solution containing said impurities;

recovering said precipitated aluminium hydroxide and recycling said second solution containing said organic impurities to said digestion step;

separating said recovered aluminium hydroxide precipitate into a fine particle size fraction and a large particle size fraction;

washing said fine particle size fraction with water and filtering it to provide a seed wash filtrate containing organic impurities and a washed seed aluminium hydroxide precipitate;

recycling said washed seed precipitate to said first solution to aid precipitation of aluminium hydroxide;

recycling said seed wash filtrate to said digestion step;

contacting said seed wash filtrate and one or more of said first and second solutions containing said impurities prior to precipitation or recycling with manganese dioxide in an amount effective to oxidise material within the overall process; and

calcining said large particle size aluminium hydroxide fraction to convert it into alumina.

Compl. Specn.-31 Pages

Drg. 5 Sheets

Ind. Class : 189

169275

Int. Cl.⁴ : A61K 6/10.

A PACKAGED DENTAL CREAM.

Applicant COLGATE-PALMOLIVE COMPANY, A DELAWARE CORPORATION, OF 300 PARK AVENUE, NEW YORK, NEW YORK-10022, UNITED STATES OF AMERICA.

Inventors : ROBERT LEE MITCHELL, MICHEL ALEXANDER KIERNAN AND SANDRA LEE SCHELM.

Application for Patent No. 138/Del/88 filed on 19 February 1988.

Division to Application No. 737/Del/86 filed on 14 August 1986.

Ante-dated to 14 August 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A packaged dental cream wherein said dental cream is in direct contact with a low or medium density polyethylene or polypropylene surface, where synergism occurs in said dental cream due to said direct contact when said dental cream comprises as ingredients an aqueous vehicle comprising a liquid vehicle comprising 10 to 50% by weight of water and glycerine and sorbitol together in amount of 15 to 50% by weight, the weight ratio of glycerine to sorbitol being from 0.25 : 1 to 3 : 1, a dental cream solid vehicle comprising 0.05—10% by weight of a dental cream gelling agent and 20 to 75% by weight of a dentally acceptable water-insoluble polishing material at least 50% by weight of which is alpha-alumina trihydrate, and a water-soluble inorganic phosphate compound in amount which reduces the pH of the dental cream from 6 to 8; said dental cream comprising said ingredients and 0.5 to 2% by weight of polyethylene glycol of average molecular weight of 200 to 1000, the weight ratio of the total amount of glycerine and sorbitol to said polyethylene glycol being from 60 : 1 to 6 : 1.

Complete Specification-19 Pages.

Ind. CL. : 32 F 2b

169276

Int. Cl.⁴ : C 07 D209/56.

A PROCESS FOR PRODUCING POLY (HAPHTHOYLENEBENZIMIDAZOLES).

Applicant(s): INSTITUT ELEMENTOORGANICHESKIKH SOEDINENY DIENI NESMEYANOVA AKADEMII NAUK SSSR.

Inventor(s) : VASILY VLADIMIROVICH KORSHAK, ALEXANDER LVOVICH RUSANOV, ALLA MARKOVNA BERLIN, FATINA INALOVNA ADYRKHAIEVA, GERMAN SEVIROVICH MIRONOV, JURY ALEXANDROVICH MOSKVICHEV, GALINA NIKOLAEVNA TIMOSHENKO, VLADIMIR IVANOVICH TITOV, MALKHAZ OTAROVICH SHALIKIANI, ALEXANDR SEMENOVICH KOGAN & ALEXANDR STEPANOVICH TRACHENKO.

Application for Patent No. 172/Del/1988, filed on 8th March 1988.

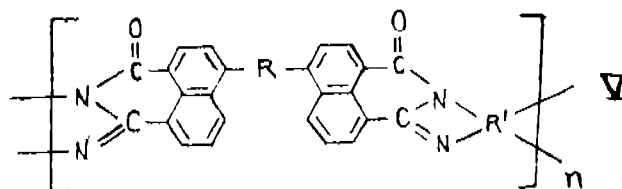
Divisional to Application No. 496/Del/1985, filed on 25th June 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

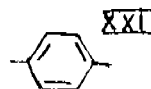
2 Claims

A process for producing poly (naphthoylenebenzimidazoles) of the general formula V

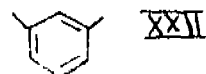
wherein R is $-\text{CO}-\text{Ar}-\text{CO}-$ or $-\text{C}(\text{CCl}_2)-$



Ar is a radical of formula XXI,



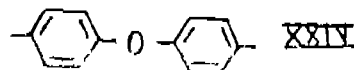
a radical of formula XXII,



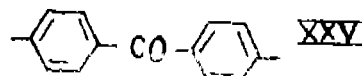
a radical of formula XXIII,



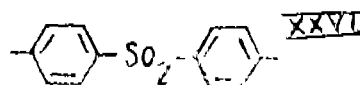
a radical of formula XXIV,



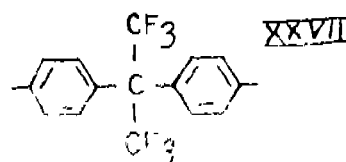
a radical of formula XXV,



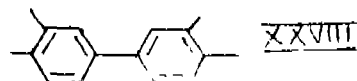
a radical of formula XXVI,



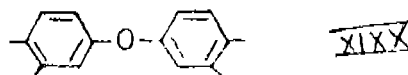
or a radical of formula XXVII,



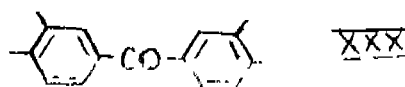
R¹ is a radical of formula XXVIII,



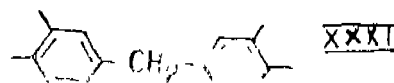
a radical of formula XXIX,



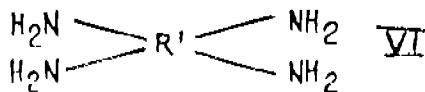
a radical of formula XXX



a radical of formula XXXI,



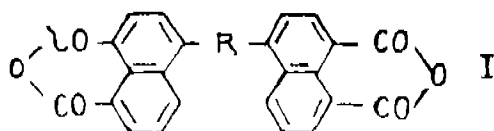
or a radical of formula XXXI, and $n=25-500$, comprising reacting aromaticbis (o-diamines) of the general formula VI



wherein R^1 is a radical of formula XXVIII, a radical of formula XXIX, a radical of formula XXX or a radical of formula XXXI or a radical of formula XXXII,

with bis(naphthalic) dianhydrides of the general formula I

wherein R is $-\text{CO}-\text{Ar}-\text{CO}-$ or $-\text{C}-\text{CCl}_2$



Ar is a radical of formula XXI, a radical of formula XXII, a radical of formula XXIII, a radical of formula XXIV, a radical of formula XXV, a radical of formula XXVI or a radical of formula XXVII, at a temperature within the range of from 160 to 190°C in a medium of polyphosphoric acid, or phenol, or cresols; in the latter case—in the presence of benzoic acid at a molar ratio thereof to the bis (naphthalic) dianhydride equal to 0.75—2.5 : 1 respectively.

Compl. Specn. 33 Pages

Drg. 8 Sheets

Ind. Cl. : 14 C & 70A

169277

Int. Cl. : H 01 M 10/28.

A METHOD OF MANUFACTURING AN ALKALI METAL ENERGY CONVERSION DEVICES.

Applicant : CHLORIDE SILENT POWER LIMITED, A BRITISH COMPANY, OF DAVY ROAD, ASTMOOR, RUNCORN, CHESHIRE, WA7 1PZ, UNITED KINGDOM.

Inventors : STUART MACLACHLAN & CHRISTOPHER O' NEIL-BELL.

Application for Patent No. 225/Del/88 filed on 21st March, 1988.

Convention date June 26, 1984/8416228/U.K.

Divisional to Application No. 494/Del/1985 filed on 24th June, 1985.

Ante dated to 24th June 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

17 Claims

A method of manufacturing an alkali metal energy conversion device comprising the steps of providing an external casing, dividing the interior of the casing into two electrode regions with a solid electrolyte element of the kind such as herein described providing an electrically insulating element of the kind such as herein described to be joined to the electrolyte element, providing at least one metal member made of iron based or nickel based corrosion resistant alloy which is to be sealed to the insulating element, wherein said metal member has a central opening for a current collector to extend there-through, insulatingly spaced from the metal member, securing the metal member directly to the insulating element by thermocompression bonding with no intermediate aluminium layer, the thermocompression bonding being conducted in a vacuum or inert gas, at a temperature up to 1,000°C by applying bonding pressure of 24.5 M mm⁻²

for twenty minutes, and afterwards joining the insulating element to the electrolyte element.

Compl. Specn. 20 Pages

Drg. 2 Sheets

Ind. Cl. : 32F3 (d).

169278

Int. Cl.⁴ : C 07 C 51/54.

A PROCESS FOR PRODUCING BIS (NAPHTHALIC) DIANHYDRIDES.

Applicant : INSTITUT ELEMENTOORGANICHESKIKH SOEDINENY IMENI A.N. NESMEYANOVA AKADEMII NAUK SSSR, OF ULITSA VAVILOVA 28, MOSCOW, U.S.S.R. and YAROSLAVSKY POLITEKHNI CHESKY INSTITUT, OF MOSKOVSKY PROSPEKT, 88, YAROSLAVL, U.S.S.R.

Inventors : VASILY VLADIMIROVICH KORSHAK, ALEXANDR LVOVICH RUSANOV, ALLA MARKOVNA BERLIN, FATIMA INALOVNA ADYRKHAIEVA, GERMAN SEVIROVICH MIRONOV, JURY ALEXANDROVICH MOSKVICHEV, GALINA NIKOLAEVNA TIMOSHENKO, R. VLADIMIR IVANOVICH TITOV, HALKHAZ OTAROVICH SHALIKIANI, ALEXANDR STEPANOVICH TKACHENKO.

Application for Patent Mo. 252/Del/88 filed on 29th March, 1988.

Divisional to Application No. 496/Del/85 filed on 25th June, 1985.

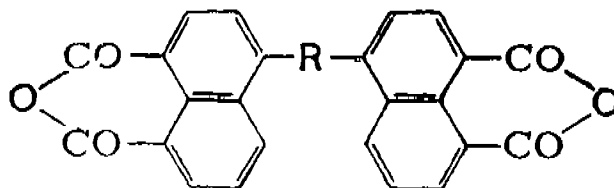
Ante-dated to 25th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

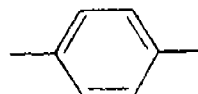
A method for preparing bis (naphthalic) dianhydrides of the Formula I

(I)

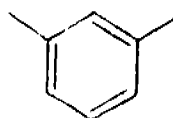


Wherein R is $-\text{CO}-\text{Ar}-\text{CO}-$ or $-\text{C}-\text{CCl}_2$

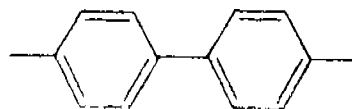
Ar is a radical of formula XXI, a radical of formula XXII, a radical of formula XXIII, a radical of formula XXIV, a radical of formula XXV, a radical of formula XXVI or a radical of formula XXVII,



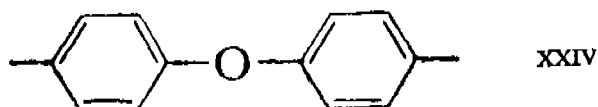
XXI



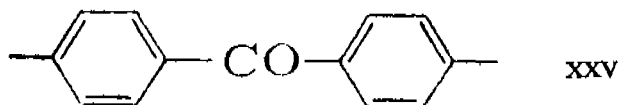
XXII



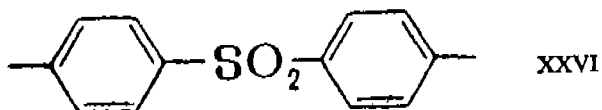
XXIII



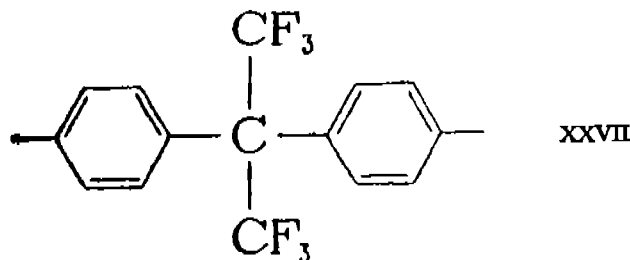
XXIV



XXV

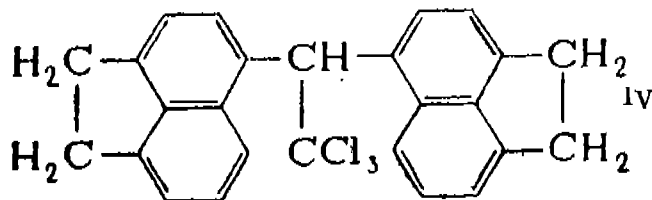


XXVI



XXVII

comprising reacting acenaphthene with trichloroacetic aldehyde or with a hydrate thereof in a medium of polychloroalkanes in the presence of an acid catalyst first at a temperature within the range of from 0. to 25°C, then at a temperature within the range of from 40 to 60°C, followed by oxidation of the resulting bis(acenaphthyl) compound of the formula IV



IV

with chromic acid salts in glacial acetic acid at a temperature within the range of from 90 to 110°C into corresponding tetracarboxylic acids which are then converted into the range of from 130 to 190°C.

Compl. Specn. 32 Pages

Drg. 9 Sheets

Ind. Cl. 39 E 40 B.

169279

Int. Cl⁴: C01G 55/00.

A PROCESS FOR THE PREPARATION OF DIOXYGEN COMPLEX OF RHUTHENIUM USEFUL FOR PHOTOCATALYTIC DECOMPOSITION OF WATER INTO OXYGEN AND HYDROGEN.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : MIRZA MOHAMMED TAQUI KHAN, RAMESH CHANDRA BHARDWAJ & CHHAYA BHARDWAJ.

Application for Patent No. 337 Del 88 filed on 19 APR 1988.

Divisional to Application No. 1005 Del 85 filed on 29 NOV 1985.

Ante-dated to 29 NOV 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi.

(CLAIMS 4)

A process for the preparation of dioxygen complex of ruthenium useful for photocatalytic decomposition of water into oxygen and nitrogen which comprises :

- (i) preparing a complex of ruthenium having the formula $\{[Ru(L)(OH)_2]O_2 K\}$ by dissolving a complex of the formula $K^2 Ru Cl_5 (H_2O)$ in a minimum amount of dilute $HClO_4$, where L, represents ethyl diamine tetra acetic acid (EDTA), hydroxy ethyl ethylene diamine tetra acetic acid (HEDTA), cyclohexane diamine tetra acetic acid (CDTA) or 1,2 diamino propane N.N.N' N' tetra acetic acid (PDTA),
- (ii) adding to the resultant complex a hot solution of Na_2H_2L dissolved in $HClO_4$, where L has the same meaning given above,
- (iii) refluxing the resultant mixture;
- (iv) filtering heating the filtrate with ethanol and concentrating and washing the filtrate, followed by washing with mixture of acetone and water in the ratio of 9:10.
- (v) adjusting the pH of the resultant filtrate to 7.5 to 8.0 and
- (vi) passing oxygen through the solution.

(Comp. Specn. 9 Pages.

Drg. 1 Sheet)

Ind. Cl. : 140 A₂.

169280

Int. Cl. 4: C10M 149/22.

A LUBRICANT COMPOSITION FOR USE IN TWO CYCLE INTERNAL COMBUSTION ENGINES.

Applicant : THE LUBRIZOL CORPORATION, A CORPORATION OF THE STATE OF OHIO, U.S.A., OF 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO 44092, U.S.A.

Inventor : KIRK EMERSON DAVIS.

Application for Patent No. 505 DEL 1988 filed on 08 JUN 1988

Divisional to Patent Application No. 931 DEL 1985 filed on 07 NOV 1985.

Ante dated to 07 NOV 1985.

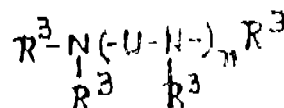
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

(CLAIMS 13)

A lubricant composition for use in two-cycle internal combustion engines, the composition comprising an oil of lubricating viscosity such as herein described and an additive present in an amount in the range of from 0.01% to 30% by weight based on the weight of the lubricating composition said additive comprising :

- (a) an alkylated phenol of the formula Ig of the drawings wherein R^1 may be located ortho or para to the hydroxyl group and is a hydrocarbon-based group containing 30 to 400 aliphatic carbon atoms; R^2 is a lower alkyl and Z is O or S;
- (b) a polyalkylene polyamine of the general formula [III].

III



wherein U is an alkylene group of from 2 to 10 carbon atoms, each R^3 is independently selected from the group consisting of hydrogen and a hydrocarbon based group containing 1–12 carbon atoms with the proviso that at least one R is a hydrogen atom, and n is a whole number of from 1 to 10 wherein the weight ratio of [A] : [B] is in the range of from 2:1 to 400:1 and

- (c) an acylated, nitrogen-containing compound having a substituent of at least 10 aliphatic carbon atoms, the compound being a rodium product of an acylating agent such as herein described with an amino compound containing at least one -NH- group, the acylating agent being linked to the amino compound through an imido, amido, amidine or acyloxy ammonia linkage.

Compl. Specn. 103 Pages.

Drg. 6 Sheets.

Ind. Cl. : 24 D₄, F [GROUP LV].

169281

Int. Cl. 4: F 16 D 65/00; F 16 D 65/38.

IMPROVEMENTS RELATING TO ADJUSTERS.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventor : ANTHONY WILLIAM HARRISON.

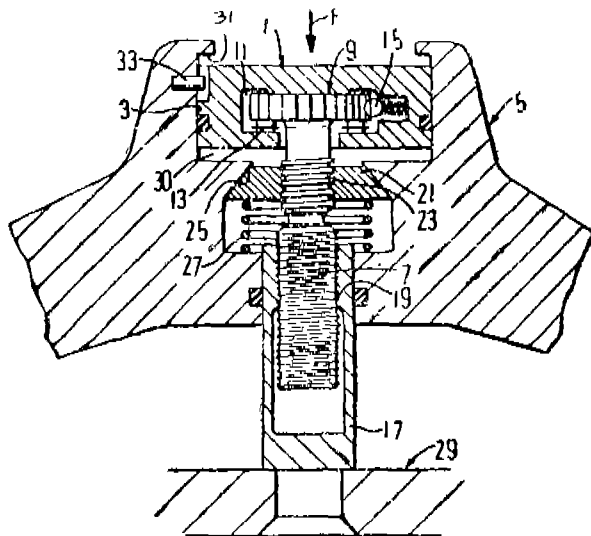
Application No. 918/MAS/86 filed on 28th November, 1986.

Convention dated 29-11-1985 No. 8529473 (United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

13 Claims

An adjuster for use in spring applied vehicle brakes comprising a thrust block which is axially slidable in a cylinder bore, the thrust block being connected to one of two screw threaded adjuster members which are interconnected by a self-sustaining thread.



Com. Spec. 9 Pages.

Drg. 1 Sheet.

Ind. Cl. : 175-I—[GROUP-XLV(3)].

169282

Int. Cl. 4: F 16 T 1/34.

A HIGH-SPEED WATER SEPARATOR FOR A STEAM POWER PLANT.

Applicant : BBC BROWN, BOVERI LIMITED, OF CH-5401 BADEN, SWITZERLAND, A SWISS COMPANY.

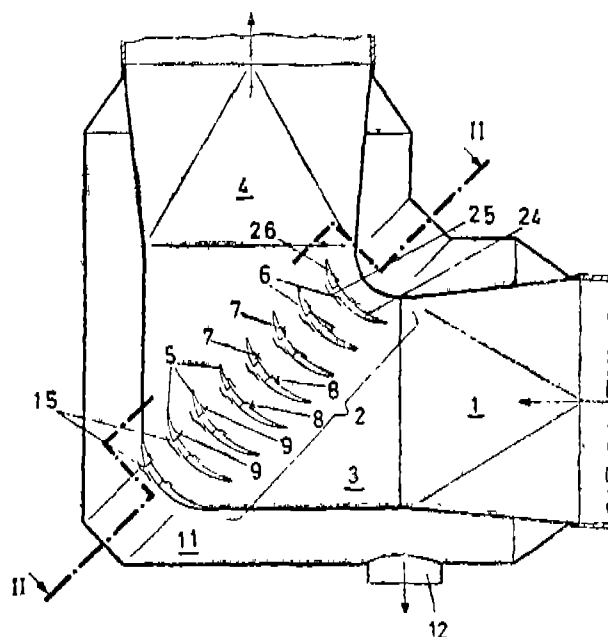
Inventor : PETER VON BOCKH.

Application No. 971/MAS/86 filed December 15, 1986.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

4 Claims

A high-speed water separator for a steam power plant, in which an outer housing (11) surrounds a pipe elbow (3) which is connected to a steam-inlet line (1) and a steam-exhaust line (4) and, in its bend plane, contains a row (2) having hollow deflection blades (5) which have a concave pressure side and a convex suction side and are formed such that they deflect the steam coming from the steam-inlet line (1) into the steam-exhaust line (4), with the concave pressure side of the deflection blades (5) having rows of suction openings (6; 7) which extend over the entire length of the deflection blades (5) and are covered in each case by a cover strip (8; 9) at a distance perpendicular to the pressure side, which distance, is fixed by spacers (10), with the upstream edges of the cover strips (8; 9), with the pressure side, defining a suction slot directed against the direction of the steam flow, and the downstream edges of the cover strips (8; 9) being connected in a sealing manner to the pressure side of the deflection blades (5), and with the suction openings (6; 7) via the hollow inside of the blade, communicating with the outer housing (11) which surrounds the pipe elbow (3) and has a water-drain connecting piece (12) for the condensate to be separated, wherein the convex suction side of the deflection blades (5) has at least one row of suction openings (15) which communicate with the inside of the blade and extend over the entire length of the deflection blades (5) and are covered in each case by a cover strip (16) at a distance perpendicular to the suction side, wherein this distance is fixed by spacers (10), wherein the downstream edges of the cover strips (16) define a suction gap (17), wherein the upstream edges of the cover strips (16) are connected in sealing manner to the suction side, and wherein baffle elements (18-21; 22, 23) are present in the inside of the blade, which baffle elements (18-21; 22, 23), in order to separate the condensate, extend the flow path of the transport steam drawn in through the suction openings (6; 7) on the pressure side of the deflection blades (5) into the inside of the blades and drawn out into the steam-exhaust line (4) through the suction openings (15) located on the suction side.



Com. 13 pages

Drgs. 3 sheets

Ind. Class : 32-C-[GROUP-IX(1)]

Int. Cl. : A 01 N 65/00.

A METHOD FOR PRODUCING RHIZOBIA F² TRANSCONJUGANTS.

Applicant & Inventor : SVEN-ERIK NIELSEN AND GRETE MOERCH SØRENSEN, BOTH OF TREKANTEN 5, HALDUM, 8382 HINNEKUP, DENMARK BOTH OF DANISH NATIONALITY.

Application No. 1011/MAS/86 filed December 24, 1986.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A method for producing Rhizobia F₂ transconjugants that symbiotically fix nitrogen in non-legumes comprising :

- (a) streaking in a known manner two or more rhizobium parent on a solid nutrient medium containing known nutrients essential for growth in addition to a non-denatured extract of a legume host partner of each parent rhizobium chromatographic fraction derived from a non-denatured extract of a legume host partner of each parent rhizobium and/or crystals obtained from the chromatographic fractions derived from a non-denatured extract of a legume host partner of each parent rhizobium and/or proteins relate to the extract or chromatographic fractions;
- (b) culturing the rhizobia parents at a temperature of 18°C to 30°C for forming colonies having a specific colour;
- (c) selecting in a known manner a rhizobium F₁ transconjugant milky white colony that grows in between the Rhizobia parent colonies;
- (d) streaking the rhizobium F₁ transconjugant in alternating rows with a third rhizobium parent on the nutrient medium of step (a) further comprising a legume extract, chromatographic fraction or protein of the third rhizobia parent;
- (e) culturing the rhizobium F₁ transconjugant and third rhizobium parent at a temperature of 18°C to 30°C for forming colonies and
- (f) selecting a rhizobium F² transconjugant snowy white colony that grows in between the rhizobia F₁ transconjugant and the third rhizobia parent.

Com. 68 pages.

Drgs. 2 sheets.

Ind. Cl. : 40 A2 [GROUP IV (1)].

169283

Int. Cl. : B 01 J 8/24.

A CIRCULATING FLUIDIZED BED REACTOR.

Applicant : A. AHLSTRÖM CORPORATION, A FINNISH CORPORATION EXISTING UNDER THE LAWS OF THE STATE OF FINLAND, OF SF-29600 NOORMARKKU, FINLAND.

Inventors : (1) FOLKE ENGSTRÖM

(2) KAJ HENRICSON

(3) RAGNAR LUNDGVIST

Application No. 1022/MAS/86 filed on 30th December, 1986.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

15 Claims

A circulating fluidized bed reactor, comprising.

a vertical reactor chamber;

a separator (3,103,203) for separation of solid material from the gases discharged from the reactor chamber, the separator having a vortex chamber (4,104,204,304);

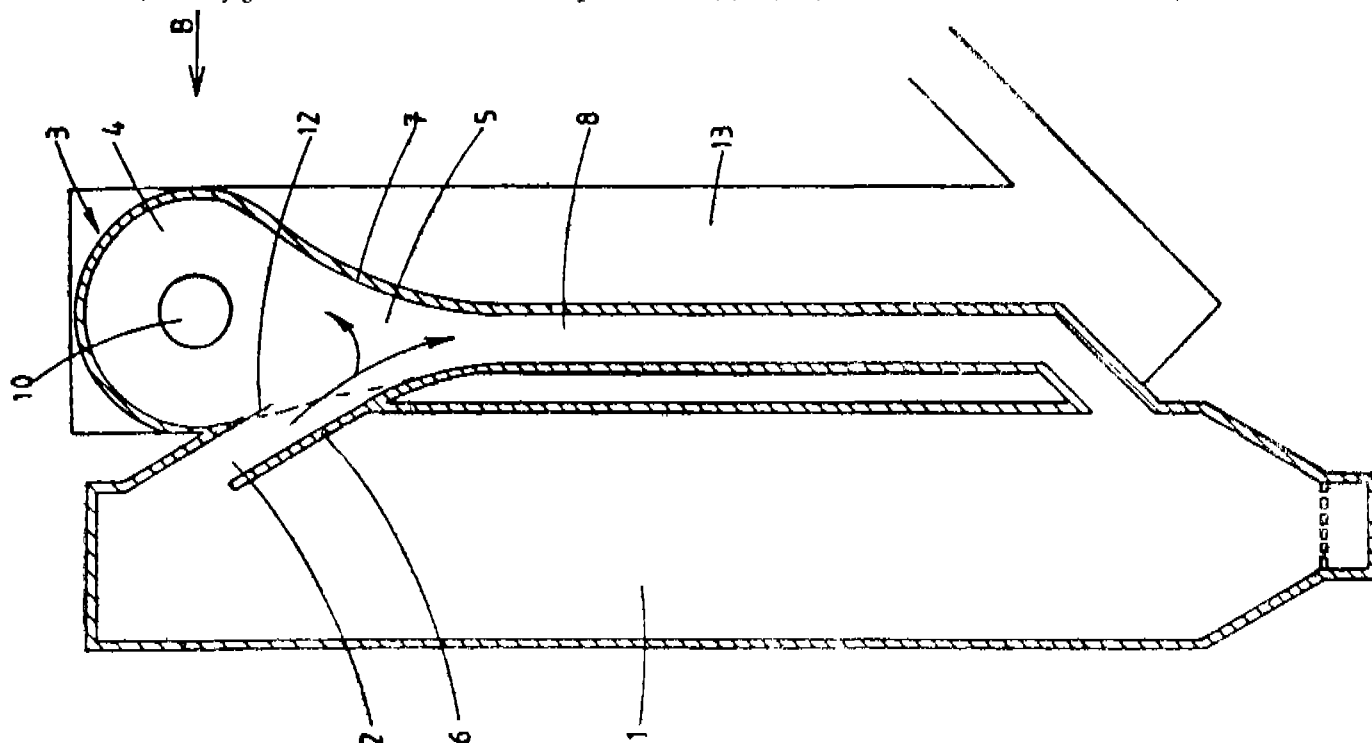
a channel for the gases discharged from the reactor chamber, said channel comprising a downwardly directed channel portion (2,102,202,302);

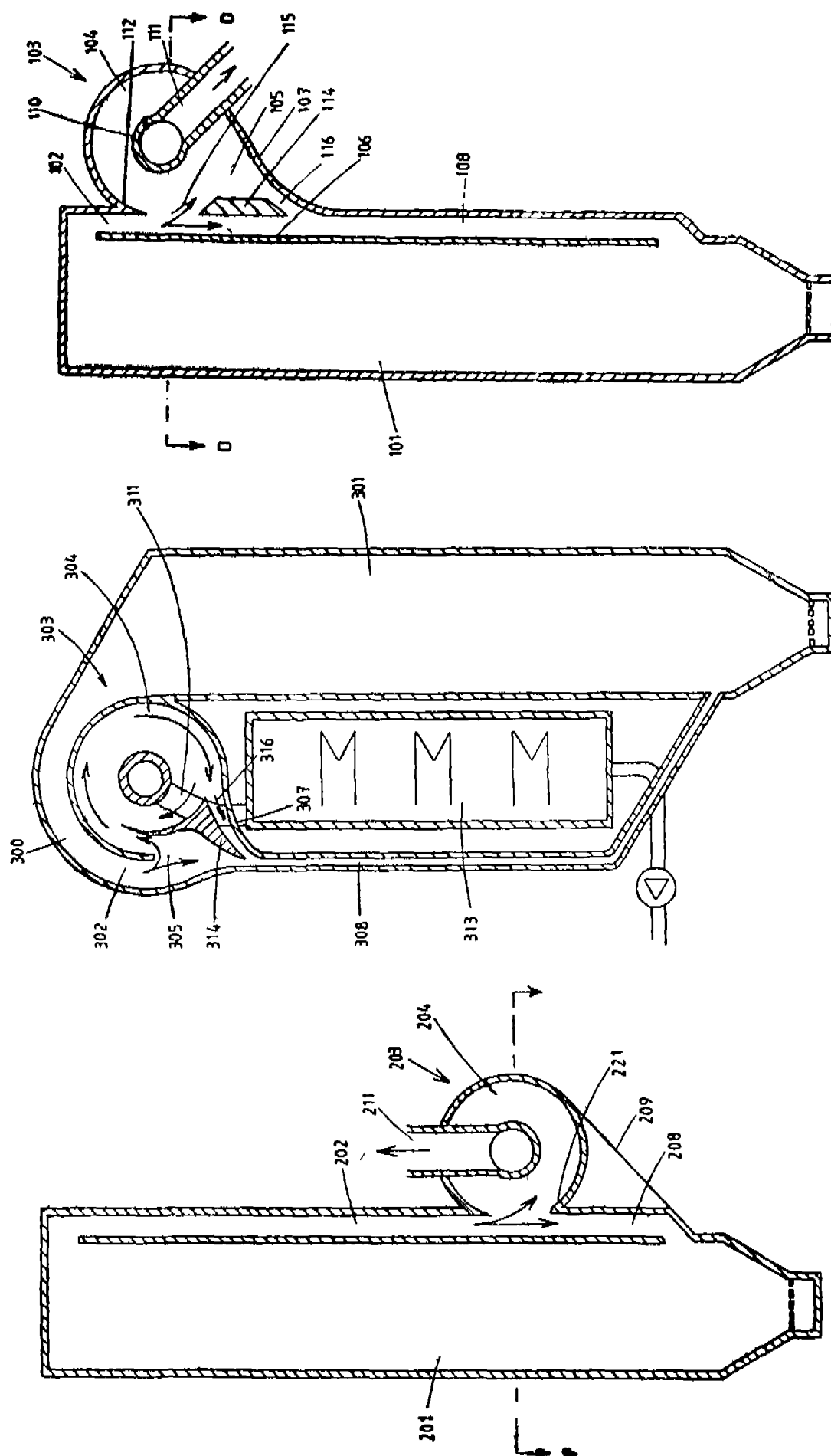
a channel (11,111,211,311) for the purified gases discharged from said separator; and

a channel (8,108,208,308) for recycling the separated solid material to the reactor;

characterized in

means (7,107,114,314) for changing the direction of the main portion of the gases flowing through said downwardly directed channel portion (2,102,202,302) and for guiding the main portion of said gases to said separator; said means comprising a tongue (12) formed by the vortex chamber (4,104,204,304) and the downwardly directed channel portion (2,102,202,302) and directed towards the inlet of the channel (8,108,208,308) for recycling the separated solid material; said downwardly directed channel portion (2,102,202,302) and the solid material return duct (8,108,208,308) being arranged substantially in a line.





Ind. Cl. : 23 E [GROUP XL (3)].

Int. Cl.⁴ : B 31 B 7/00.

A BLANK AND A FLIP-TOP AUTOMATIC LOCKING CARTON MADE THEREFROM.

Applicant : I T C LIMITED, AN INDIAN COMPANY, OF VIRGINIA HOUSE, 37 CHOWRINGHEE, CALCUTTA 700 071, WEST BENGAL.

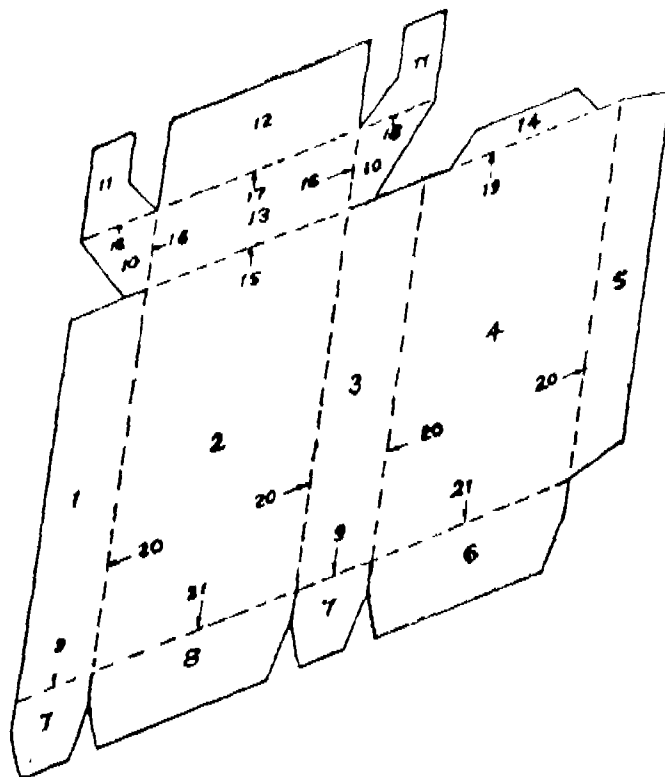
Inventor : DEEPAK SAHAY.

Application No. 12/MAS/87 filed on 9th January, 1987.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A blank for making a flip-top automatic locking carton comprising a front panel (4), a rear panel (2), two side panels (1,3) and an overlapping panel (5) all divided by deep creases, said front, rear and side panels being provided at their bottom with extensions (6,7,8) to form the carton, the top of the rear panel (2) being provided with extensions (12,13) having creases (15,17) to form a hinge shaped lid, the extension (13) being provided with two symmetric side extensions/flaps (10,11) cut away from the side panels (1,3) and having deep creases (16,18), the top of the front panel (4) being provided with an extension tongue (14) formed by a deep crease (19), said side extensions/flaps (10,11) when glued on to the inner side of the extension (12) together with said extension tongue (14) constitute a self-locking provision.



Com. Speco. 8 Pages.

Drg. 1 Sheet.

Ind. Class : 55-E₂ [GROUP-XIX(1)].

Int. Cl.⁴ : A 61 K 7/06.

A PROCESS FOR PREPARING A HAIR-CARE COMPOSITION.

Applicant : BEECHAM GROUP P L C, A BRITISH COMPANY, OF BEECHAM HOUSE, GREAT WEST

ROAD, BRENTFORD, MIDDLESEX TW8 9BD, ENGLAND.

Inventors : (1) WALTER BRYAN DAVIS.

(2) MARGARET DOROTHY BATT.

(3) BENJAMIN DIGBY RIDGE.

Application No. 148/MAS/89 filed February 23, 1989.

Convention date : February 25, 1988; (No. 8804419; Great Britain).

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims No drawing

A process for preparing a hair-care composition comprising dissolving at least a mixture of two C alkanoyl esters of retinol other than retinol palmitate in the oil phase of a multiphase system such as an oil in water or water in oil emulsion, wherein the oil content ranges from 5 to 50% and the concentration of the said alkanoyl ester dissolved in the oil phase ranges from 1,000 to 15,000 IUG-1 and emulsifying the said admixture in a known way.

Com. 10 Pages.

Ind. Class - 102-D - [GROUP-XXIX(1)].

Int. Cl.⁴ : F 04 B 23/02.

23/04.

A CONTROL DEVICE FOR A HYDRAULIC DRIVE FOR DRIVING A PISTON PUMP.

Applicant & Inventor : DIPL-ING. ERNST KORTHAUS, OF LANDWEHR 2, D-5982 NEUENRADE, FEDERAL REPUBLIC OF GERMANY, A CITIZEN OF GERMANY.

Application No. 256/MAS/87 filed April 6, 1987.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

A control device for a hydraulic drive for driving a piston pump, the hydraulic drive having a hydraulic cylinder and a hydraulic piston connected to the piston pump, the hydraulic cylinder and hydraulic piston conjointly defining a cylinder chamber and a piston-rod chamber; comprising :

reservoir means for holding hydraulic fluid;

hydraulic fluid supply means;

a first hydraulic power line for conducting hydraulic fluid toward said hydraulic drive from said hydraulic fluid supply means;

a second hydraulic power line for conducting hydraulic fluid away from said hydraulic drive toward said reservoir means;

a control unit having : a housing; and, a control piston movably mounted in said housing between a first end position and second end position, said control piston having reciprocally acting first and second flow restrictors;

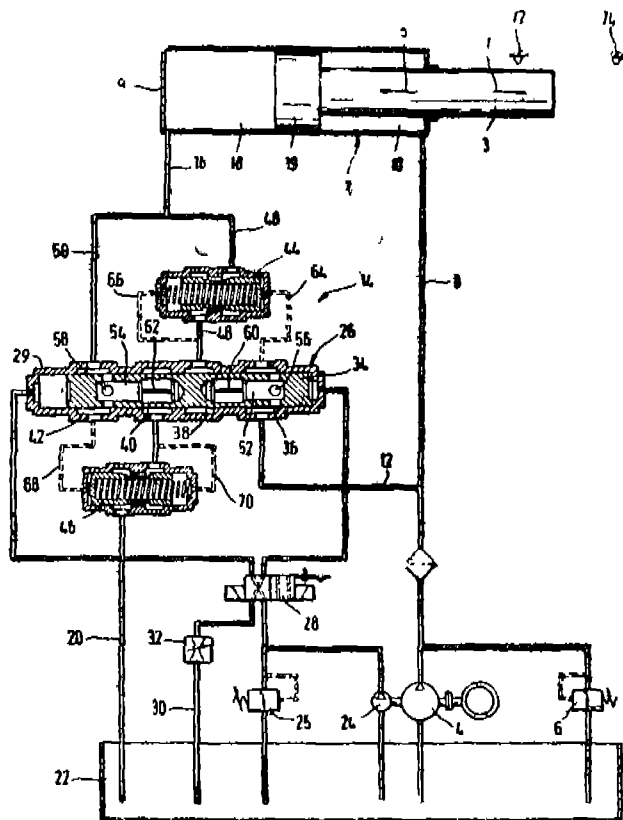
said control unit is connected into said first and second hydraulic power lines to direct the flow through said first flow restrictor toward said hydraulic drive and the flow through said second flow restrictor away from said hydraulic drive irrespective of the location of said piston between said end positions.

said control unit further having first control valve means communicating with said first flow restrictor and, second

control valve means communicating with said second flow restrictor;

ancillary hydraulic circuit means for connecting said first control valve means and said second control valve means to one of said chambers of said hydraulic drive; and

first and second pressure balancers operatively connected to the said first and second restrictors respectively.



Comp. 18 Pages.

Dr. 3 Sheets.

IND. CLASS : 129-G [Group—XXXV].

Int. Cl.⁴ : B 24 B 39/00.

AN INTERNAL ROLLER BURNISHING TOOL.

Applicant : CENTRAL MACHINE TOOL INSTITUTE,
A GOVERNMENT OF INDIA SOCIETY, OF TUMKUR
ROAD, BANGALORE-560 022, KARNATAKA STATE,
INDIA.

Inventor : HOSAGRAHARA SHANKARABHATTA
RAMACHANDRA.

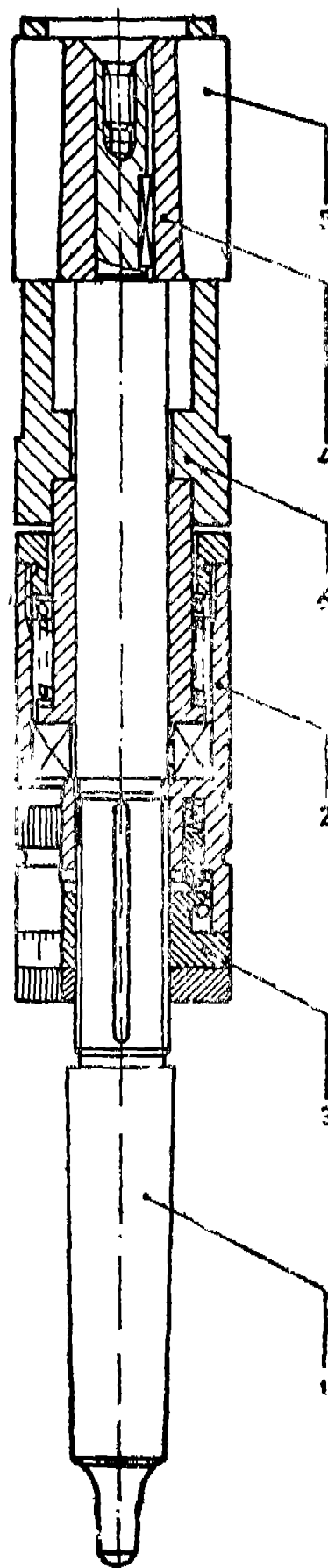
Application and provisional specification No. 281/MAS/87
filed April 15, 1987.

Complete specification left July 16, 1988.

Appropriate office for Opposition Proceedings (Rule 4,
Patents Rules, 1972), Patent Office, Madras Branch.

3 CLAIMS

An internal roller burnishing tool comprising a tapered shank having a threaded front portion carrying a body, the said body capable of being locked in a position on the shank by an adjusting collar, a taper mandrel supporting a plurality of rollers attached to the front end of the shank, the said rollers being held by a cage attached to the shank.



(PROV.—5 PAGES; COM.—6 PAGES; DRG.—1 SHEET)

IND. CLASS—24-D₂&F & 158-D [Groups-XL (3) & LII (2)]

IND. CL.4—B 61 H 13/34 B 60 T 15/00

A CONTROL VALE DEVICE FOR USE ON EACH CAR OF A RAILWAY TRAIN HAVING A BRAKE PIPE INTERCONNECTED TO THE BRAKE PIPE OF THE ADJOINING CAR.

Applicant : AMERICAN STANDARD INC., A CORPORATION OF THE STATE OF DELAWARE, OF 40 WEST, 40TH STREET, NEW YORK, NEW YORK 10018, UNITED STATES OF AMERICA.

Inventor : JAMES EDWARD HART.

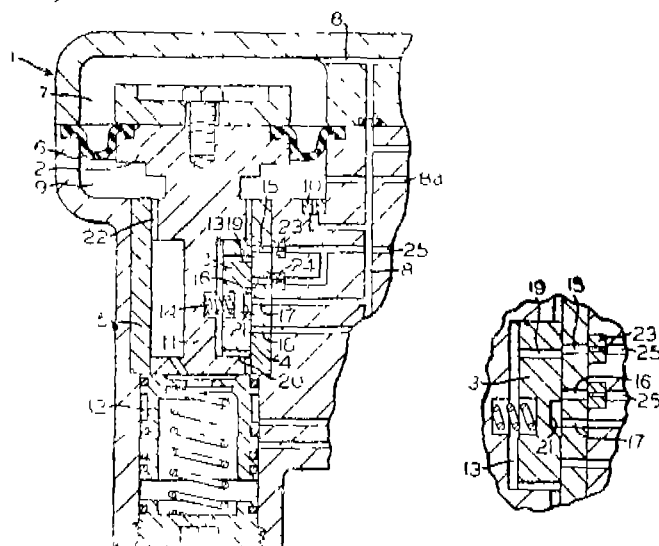
Application No. 290/MAS/87 filed April 20, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 CLAIMS

A control valve device for use on each car of a railway train having a brake pipe interconnected to the brake pipe of the adjoining car, said control valve device comprising :

- (a) a housing having a cavity therein;
- (b) an emergency piston in said cavity forming therewith first and second pressure chambers on opposite sides of said emergency piston, said first and second chambers being subject to the fluid under pressure effective in said brake pipe;
- (c) a first choke between said second chamber and said brake pipe;
- (d) slide valve means carried by said emergency piston having :
 - (i) a slide valve seat;
 - (ii) first, second and third passageways, each having one end opening in the face of said slide valve seat, and the other end of said first and second passageways opening to atmosphere, the other end of said third passageway being connected to said brake pipe;
 - (iii) a slide valve carried in a recess of said piston for movement therewith in one direction responsive to a selective reduction of the fluid pressure carried in said brake pipe, said slide valve having a face engageable with the face of said slide valve seat, said recess being subject to the fluid pressure effective in said second chamber;
 - (iv) a fourth passageway in said slide valve having one end opening in said recess and the other end opening in said face of said slide valve, said fourth passageway being communicated with said first passageway during movement of said emergency piston in said one direction; and (v) an elongage groove in the face of said slide valve via which said second and third passageways are communicated when said emergency piston is actuated in said one direction to thereby establish a further reduction of said brake pipe fluid pressure in addition to said selective reduction thereof; and
 - (e) a second choke in said first passageway.



(Com.—17 pages)

Drawing—1 sheet

IND CLASS : 95 H, 153 [Group XLIII(2), XLIII(3)]

Int. Cl.4 : B 23 D 63/16

CHAIN SAW SHARPNER.

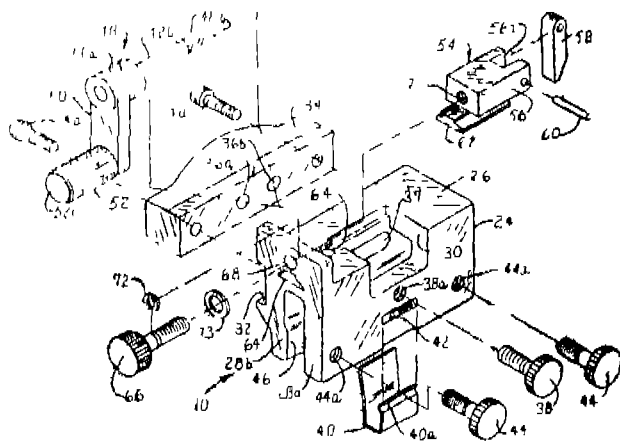
Applicant & Inventor : JAMES EVEN JORDE, A CITIZEN OF U.S.A., OF 217 EAST CENTER STREET, BASALT, IDAHO 83218, U.S.A.

Application No. 304/Mas/87 filed on 28th April, 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

Claims 8

A device for sharpening the cutting teeth of a chain saw while the chain is in place on the guide bar of the chain saw, the device comprising a U-shaped frame defined by an upper web and first and second parallel side walls for overlying the chain and guide bar of the chain saw; an open area adjacent the center of the upper web defining a sharpening area; clamp means on the first side wall to secure the frame to the guide bar; second clamp means on the side wall for lightly engaging the chain saw tooth to be sharpened in order to fix its position with respect to the sharpening area; a tooth stop pawl for adjusting the position of the tooth within the sharpening area, the tooth stop pawl being mounted in a sliding block received in a keyway in the upper web of the frame, the keyway being aligned with the guide bar of the chain saw and permitting only a single degree of freedom in the direction of the guide bar; a pawl member pivotally attached to the sliding block extending into open sharpening area; an adjustment bolt connected to the tooth stop pawl and rotatably inserted into the frame for adjusting the position of the sliding block along the length of the keyway; and guide means having diagonally disposed bores associated with the second side wall and a rotary burr insertable into either of the guide bar bores for sharpening the teeth of the chain saw.



(Com. Specn. 16 Pages

Drawing 2 Sheets)

IND. CLASS : 9 D [Group XXXIII (1)]

169291

Int. Cl.4 : C 21 C 5/00.

AN IMPROVED METHOD FOR PRODUCING CONTINUOUSLY CAST STEEL.

Applicant : INLAND STEEL COMPANY, 30 WEST MONROE STREET, CHICAGO, IL 60603, U.S.A., A DELAWARE CORPORATION.

Inventors : (1) JOHN R KNOEPKE, (2) HOWARD M. PILET, (3) LARRY A. FRANK and (4) DANIEL RELIS, JR.

Application No. 933/Mas/86 filed on 2nd December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

15 Claims

An improved method for producing continuously cast steel having at least one alloying ingredient such as herein described, comprising introducing molten steel into a tundish, monitoring the mass flow rate at which molten steel is introduced (Fa) into said tundish, adding at a controlled mass flow rate the said alloying ingredients (Fa) to the molten steel entering the tundish, and allowing said molten steel with alloying ingredients to flow from said tundish into a continuous casting mold to obtain cast steel having a concentration (Ca) of the alloying ingredients throughout the cast wherein the mass flow rate of the alloying ingredients (Fa) is controlled such that the concentration (Ca) of the alloying ingredients is equal to (Fa. R) in which R is ex-

pected recovery pre-determined on the basis of earlier casting; and the mass flow rate of the alloying ingredients (Fa) is adjusted throughout the casting operation to compensate for the changes (i) in the mass flow rate at which molten steel is introduced (Fa) into said tundish and (ii) in the expected recovery (R), for maintaining the variation in the concentration (Ca) of the alloying ingredients throughout the cast steel between $\pm 9\%$.

(Com. Spec.—21 pages;

Drgs.—Nil)

IND. CLASS : 40-B—[Group-IV(1)]

169292

Int. Cl.⁴ : C 08 F 4/06.

CATALYST SYSTEM FOR HIGH-TEMPERATURE (CO) POLYMERIZATION OF ETHYLENE.

Applicant : STAMICARBON B.V., A. NETHERLANDS COMPANY OF MIJNWEIG 1, 6167 AC GELEEN, THE NETHERLANDS.

Inventors : (1) JOHANNES BLENKERS (2) LUC MARIA CONSTANT COOSEMANS.

Application No. 969/MAS/86 filed December 12, 1986.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

21 CLAIMS NO DRAWING

Catalyst system suitable for the (co) polymerization ethylene and optionally minor amount of 1-alkenes and/or dienes at a temperature of at least 180°C, comprising at least two components A and B wherein :

(A) is one or more titanium compounds having the general formula $Ti(OR^1)_4-nX^1_n$ and/or $Ti(OR^2)_3-mX^2_m$, where the symbols R^1 and R^2 are equal or different and represent hydrocarbon residues with 1-20 carbon atoms, X^1 and X^2 represent halogen atoms, $0 \leq n \leq 4$ and $0 \leq m \leq 3$, and one or more vanadium compounds belonging to the compounds of the general formula $VO(OR^3)_3-pX^3_p$, where R^3 represents a hydrocarbon residue with 1-20 carbon atoms, X^3 represents a halogen atom and $0 \leq p \leq 3$ mixed with one or more orga-

noaluminium compounds belonging to the compounds of the general formula: $R^4qAlX^4_{3-q}$, where the symbols R^4 are equal or different and represent a hydrocarbon residue with 1-20 carbon atoms, X represents a halogen atom and $0 \leq q \leq 3$, in such an amount that the atomic ratio of aluminium to the sum of titanium and vanadium is at least 3,

(B) is one or more organoaluminium compounds, belonging to the compounds of the general formula $R^5sAlY^5_3-s$, where the symbols R^5 are equal or different and represent a hydrocarbon residue with 1-20 carbon atoms, Y represents a hydrogen atom, a hydrocarbon residue with 1-20 carbon atoms, a group of the general formula-NR⁶ (where R^6 is a hydrocarbon residue with 1-10 carbon atoms), or a group of the general formula-OR⁷ (where R^7 is a hydrocarbon residue with 1-20 carbon atoms) or a group of the general formula-Si(R^8)³, where the symbols R^8 are equal or different and represent a hydrogen atom and/or a hydrocarbon residue with 1-20 carbon atoms) and $0 \leq s \leq 3$,

one or both of components A and B containing chlorine, the atomic ratio of the chlorine from components A and/or B to the sum of titanium and vanadium of component A is at least 6.

(COM.—30 PAGES)

IND. CLASS—49-F—[Group-XV(1)].

IND. CL.⁴—A 21 C 1/00 A 21 D 8/00.

AN APPARATUS FOR AUTOMATICALLY MAKING FOOD PRODUCTS SUCH AS BREAD, CAKES AND THE LIKE.

Applicant : HEDEN-TEAM AKTIENGESellschaft, OF FL-9497, TRIESENBERG, LIECHTENSTEIN, A LIECHTENSTEIN COMPANY.

Inventor : GUNNAR HEADENBERG.

Application No. 986/Mas/86 filed December 17, 1986.

Convention date : December 23, 1985; (No. 498,491; Canada).

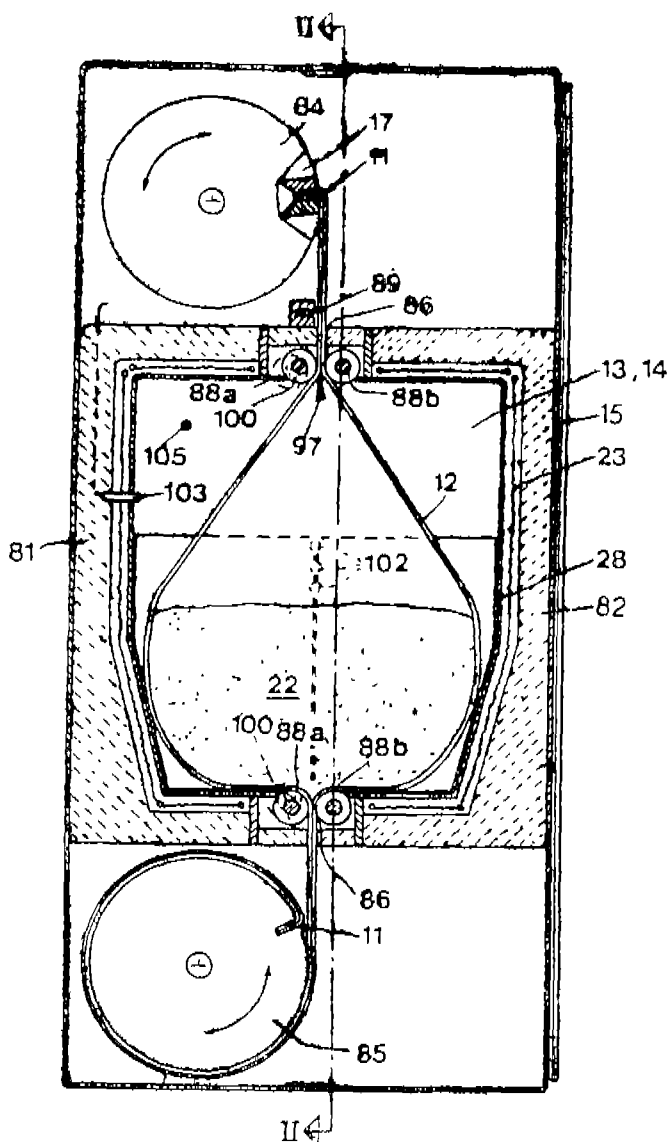
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

12 CLAIMS

Apparatus for automatically making food products in piece form from dough-like substances, characterized in that it comprises a housing containing holding means adapted to be affixed to opposed edges of a flexible bag containing ingredients for the dough-like substance, kneading means for mechanically working the ingredients in the bag and including moving means for creating relative movement between the bag, the kneading means and opening means so that the ingredients are kneaded into a dough-like substance, heat treatment means for baking the kneaded dough-like substance, and programmable control means for controlling the sequential operation of the kneading means and heat treatment means, scanning means located adjacent the path of the bag as moved by the moving means for reading machine-readable indicia on a bag and for providing an

output coupled to the control means to command operation of the control means.

faces (12) terminate laterally along a vertical line (AC) and downstream along a horizontal line (CD).



(COM.—18 PAGES; DRWGS.—7 SHEETS)

Ind. Cl. : 33 A [GROUP XXXIII (3)]

169294

Int. Cl. : B 22 D 11/04

AN IMPROVED MOULD FOR CONTINUOUS CASTING OF STEEL STRIP.

Applicant : SMS SCHLOEMANN-SIEMAG AKTIEN GESELLSCHAFT, of Eduard-Schloemann-Strass 4, 4000 Dusseldorf 1, West Germany, a German company.

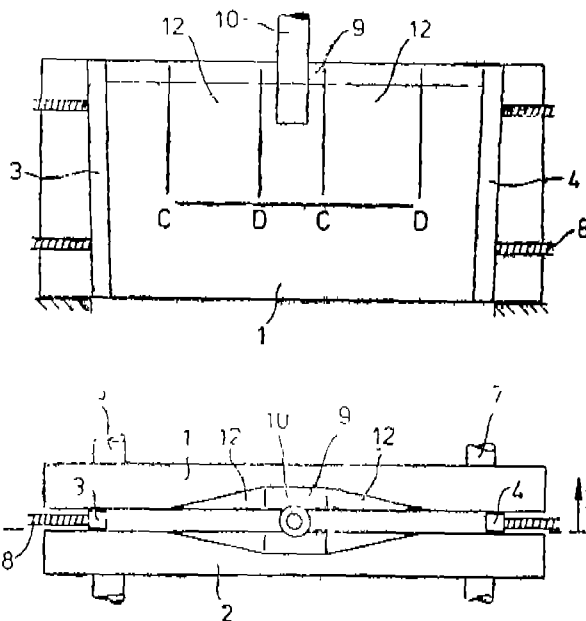
Inventor : HANS STREUBEL.

Application No. 1015/MAS/86 filed on 26th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

5 Claims

An improved mould for continuous casting of steel strip comprising cooled broad side walls and narrow side walls, said broad side walls defining a flared pouring zone tapering inwardly towards parallel areas, characterized in that said flared broad side walls, (1, 2) having rectangular transition



(Com. Spec.—7 pages; Drgs.—4 sheets).

Ind. Class-69-1—[GROUP-LIX(1)]

169295

Int. Cl.-H 02 H 3/08

SOLID-STATE TRIP DEVICE WITH TEST CIRCUIT FOR AN ELECTRICAL CIRCUIT BREAKER.

Applicant : MERLIN GERIN, OF RUE HENRI TARZE, F 38050 GRENOBLE CEDEX, FRANCE, A FRENCH COMPANY.

Inventors : (1) DIDIER FRAISSE; (2) PAUL TRIPODI; (3) PASCAL DUDON.

Application No. 1016/MAS/86 filed December 26, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

7 Claims

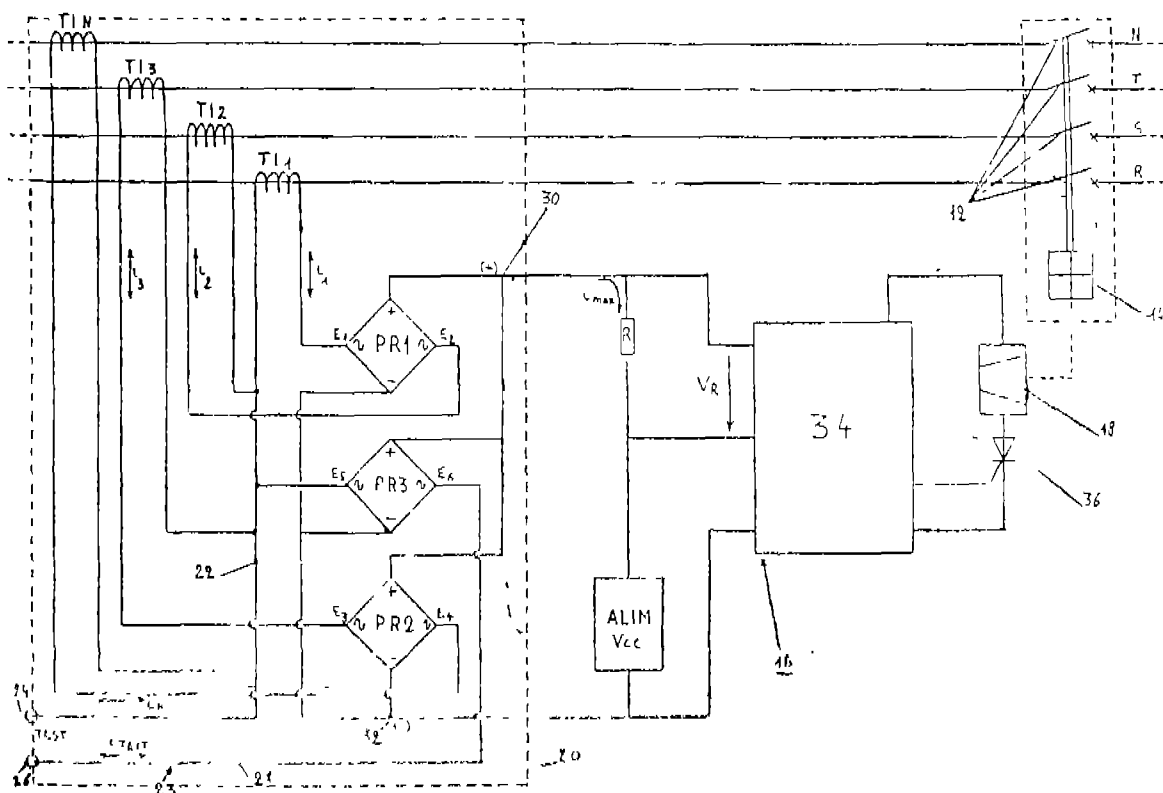
A solid state trip device for a multipole electrical circuit breaker with an operating mechanism of a separable contact system comprising :

— a measuring device having a current sensor per pole to detect the intensity of the current flowing in each active conductor of the alternating current system, and rectifying means, electrically connected with said sensor to deliver a first rectified control signal, proportional to the maximum intensity of the currents of the system,

— a first electronic processing circuit of said first control signal, comprising at least one delayed or instantaneous trip circuit capable of sending with or without a time delay a tripping order to a solid-state switching device when said signal exceeds a predetermined threshold,

— a trip coil electromagnet controlled by said switching device and acting on the mechanism after the tripping order has been emitted, to open the separable contact system,

— and a test circuit with auxiliary terminals which is connected to a fault simulator for applying an artificial fault current to monitor operation of the solid-state trip device, when the circuit breaker is either connected with or disconnected from the active conductors of the system, wherein an internal connection circuit provides the link between the auxiliary terminals of the test circuit and the input of a rectifier cell having a diode rectifier bridge, whose output is electrically connected in parallel with the respective outputs of the other rectifier cell bridges associated with the current sensors.



(Com.—21 pages; Drawgs.—6 sheets).

Ind. Cl. : 69 M [GROUP LIX (1)]

169296

Int. Cl.⁴ : H 01 H 3/38

CONTACT ASSEMBLY FOR A SWITCH.

Applicant & Inventor : DONALD H. MACADAM, A CITIZEN OF CANADA, OF 256 LIME KILN ROAD, ANCASTER ONTARIO, L9G 3B1, CANADA.

Application No. 1018/MAS/86 filed on 29th December, 1986.

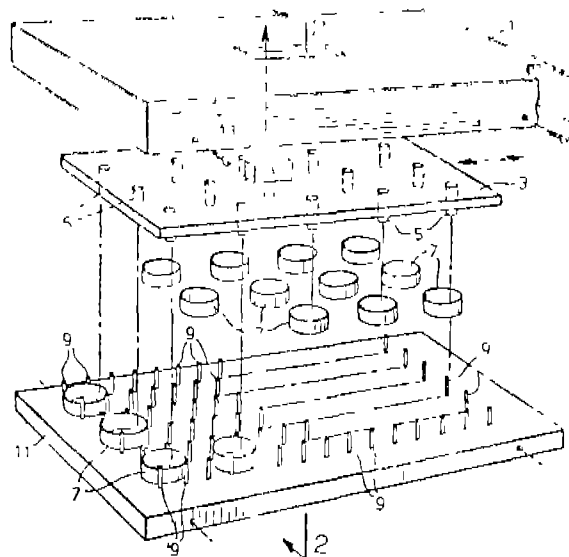
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

10 Claims

A contact assembly for a switch comprising :

- (a) an electrically conductive elastic closed loop,
- (b) an array of at least three surfaces, at least two of which are contact surfaces, which are mounted in fixed relation to each other on a support means on a periphery smaller than the periphery of the loop to confine the loop under stress within the array so that the loop bridges the contact surfaces,
- (c) in which at least two of the surfaces are spaced to provide a path for the loop of increased stress as it is moved out of the array, and
- (d) means for moving the loop along the path into and

out of the array to make or break contact with at least one of the contact surfaces.



(Com. Spec.—16 pages; Drgs.—3 sheets).

Ind. Cl. : 129 Q [GROUP XXXV]

169297

Int. Cl.⁴ : B 31 B 1/84

FOIL BAG.

Applicant : LINDKNUD PLAST A/S, A DANISH COMPANY, OF PRAESTEVAFNGET 32, DK-6600 VEJEN, DENMARK.

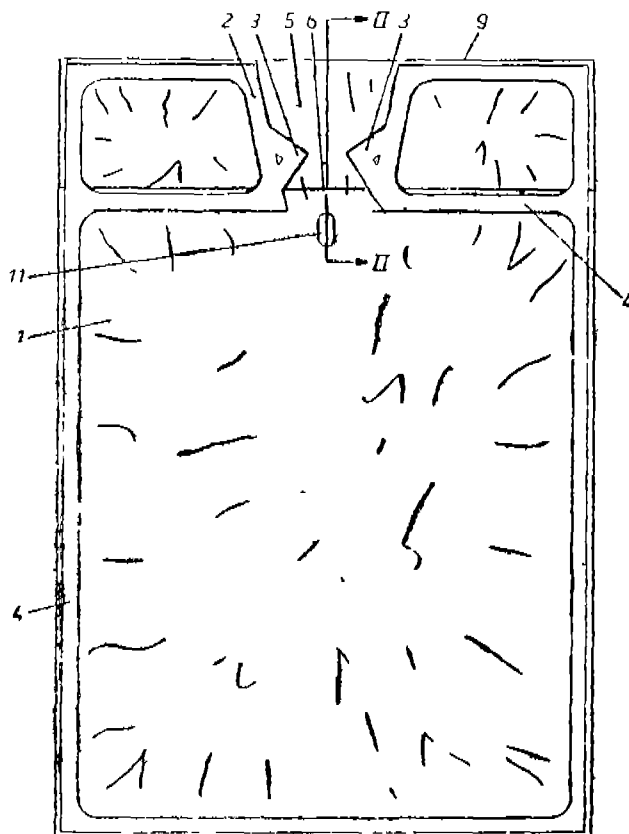
Inventors : (1) LARS GJELSTRUP; (2) FLEMMING HANSEN.

Application No. 292/MAS/87 filed on 21st April 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

5 Claims

Foil bag, primarily for keeping a liquid, consisting of two welded-together foils with an inlet extending from the edge of the bag to its inside along a channel defined by weld seams, characterized in that the foils (1) are folded towards the inside of the bag for the formation of two valve flaps (8) in the channel (5), said valve flaps (8) being welded together at the weld seams (2) defined by the channel (5) for the formation of two pockets (7) being open towards the centre of the bag and extending in the entire length of the channel (5).



(Com. Spec.—10 pages; Drgs.—2 sheets).

Ind. Class—172-D₁—[GROUP—XX]

169298

Int. Cl.⁴—D 01 H 9/04

A TRAVELLING SERVICE DEVICE FOR SERVICING OPERATING STATIONS OF YARN PROCESSING MACHINE.

Applicant : MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND OF CH-8406 WINTERTHUR, SWITZERLAND

Inventor : ANDRE LATTION.

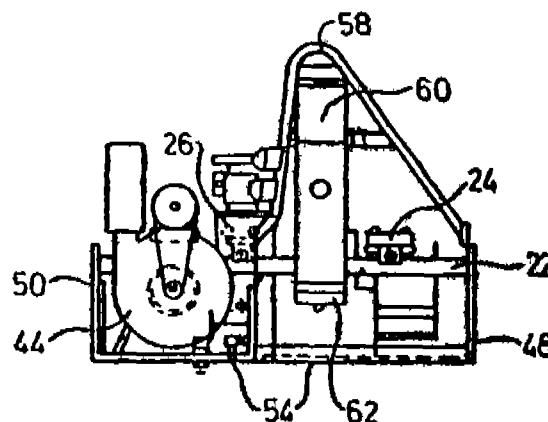
Application No. 234/MAS/89 filed March 23, 1989.

Divisional to Patent No. 165817 (977/MAS/85); Antedated to December 3, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

2 Claims

A travelling service device for servicing operating stations of a yarn processing machine comprising a support frame adapted to travel in a predetermined direction, an end face transverse to said direction, a bobbin magazine and means mounting the bobbin magazine on said face for movement between a first position in which said magazine conceals at least part of said end face and a second position in which said end face, or at least part thereof previously concealed by the magazine, is exposed.



(Com.—34 pages; Drwgs.—8 sheets).

Ind. Cl : 77B [GROUP XI (1)]

169299

Int. Cl.⁴ : C 11 B 1/00

A METHOD FOR PRODUCING AN UPGRADED COCONUT PRODUCT IN THE FORM OF COCONUT OIL OR COCONUT MILK.

Applicant : NOVO INDUSTRI A/S. OF NOVO ALLE, 2880 BAGSVAERD, DENMARK, A DANISH JOINT-STOCK COMPANY.

Inventors : (1) FLEMMING MARK CHRISTENSEN; (2) HANS AAGE SEJR OLSEN.

Application No. 125/MAS/89 filed on 15th February, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

7 Claims

A method for producing an upgraded coconut product in the form of coconut oil or coconut milk comprising the steps of preparing an aqueous suspension with .1 to .25 parts of heat treated particles of coconut meat in water, enzymatically treating for 1 to 6 hours the said aqueous suspension with a mixture essentially free from lipases and consisting of one or more cell wall degrading enzyme having activity units between 10 and 700 per kg of dry coconut meat selected from Pectinase, SPS-ase, cellulase and Protease and a galactomannase having activity units between 1.5×10^8 and 200×10^8 per kg of dry coconut meat and separating a sludge phase in a known manner to obtain the upgraded coconut product.

(Com. Spec.—21 pages; Drgs.—4 sheets).

Ind. Class—128-G—[GROUP-XIX(2)]

169300

Int. Cl.⁴—A 61 M 1/34

A FILTER DEVICE FOR THE DEPLETION OF THE LEUKOCYTE CONTENT OF A PLATELET CONCENTRATE DERIVED FROM BLOOD.

Applicant : PALL CORPORATION, DULY ESTABLISHED UNDER THE LAWS OF NEW YORK STATE IN THE U.S.A., 30 SEA CLIFF AVENUE, GLEN COVE, NEW YORK 11542, U.S.A.

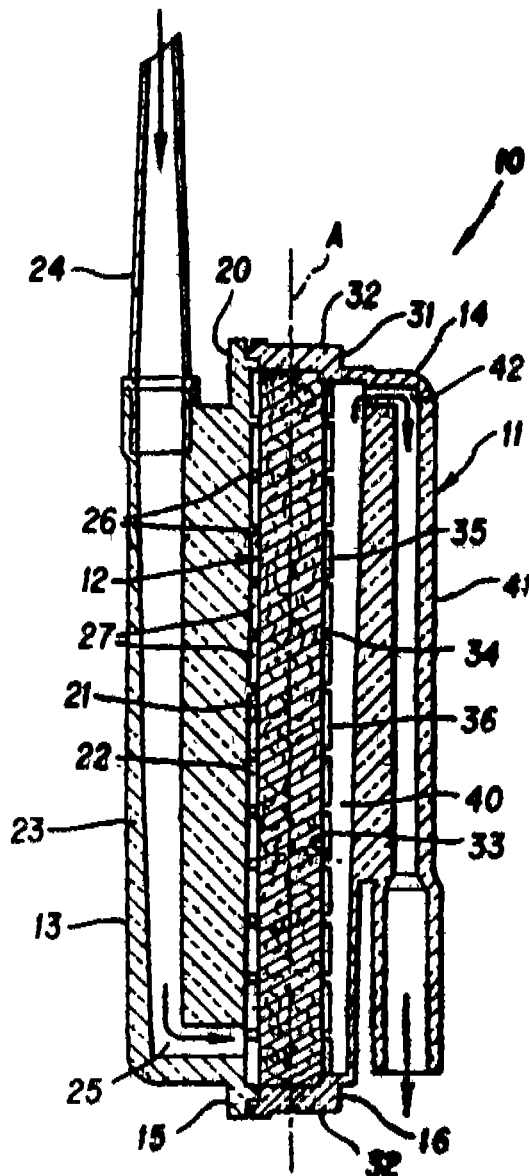
Inventors : (1) DR. DAVID BORIS PALL, (2) THOMAS CHARLES GSELL.

Application No. 126/MAS/89 filed February 15, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

10 Claims

A filter device for the depletion of the leukocyte content of a platelet concentrate derived from blood comprising a housing having at least an inlet and an outlet, the said housing containing a known porous polymer fibrous medium having a critical wetting surface tension (CWST) of at least 90 dynes/cm and a pore diameter in the range of 3 to 6 micrometers; the said fibre of the medium having a modified surface which present hydroxyl groups when immersed in an aqueous fluid.



(Com.—90 pages; Drwg.—6 sheets).

Ind. Cl : 33 A [GROUP XXXIII (3)]

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries in the date of the registration of the design included in the entry.

Class 1 No. 162514. Samra Labs. Pvt. Ltd. of Dist. Ludhian, Punjab, Sahnewal-141120. "Auto Poultry Frame Cages". September 18, 1990.

Class 1 No. 162903. Telefonica De Espana, S. A., Spanish Company of Gran Via 2828013 Madrid Spain. "Profile for the support of printed circuit boards". February 12, 1991.

Class 1 No. 162981. International Business Machines Corp., American Co., of Armonk, New York 10504, U.S.A. "Computer". March 6, 1991.

Class 1 No. 163082. Prof. Gnan Chand Chadha trading as Zuko Engineers, G.T Road, Model Town, Ambala City, Punjab, India. "Arms for door closure". March 23, 1991.

Class 1 No. 163097. Bhagat Singh Inde Singh of Samrala, Dist. Ludhiana (Pb), a Proprietary firm. "Burner for kerosene stove". March 27, 1991.

Class 1 No. 163145. Sweet Home Industries of 13, Industrial Area, Phase-I, Chandigarh, India, Indian Proprietary Firm. "Gas cylinder Hauler". April 15, 1991.

Class 1 No. 163280. Metro Cycle Industries of 9/45, Shalamar Industrial Area, Delhi-110052, India, Indian Partnership Concern. "Mirror". June 4 1991.

Class 1 No. 163284. Swizzer Industries, 392-Lajpat Rai Market, Delhi-110006, India, Indian Partnership Firm. "Tuner". June 5, 1991.

Class 3 No. 162753. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-4, Maharashtra, India, Indian Partnership Firm. "Container". December 11, 1990.

Class 3 No. 162795. Royal Enterprises, 113/115, Keshavnaiik Road, Bombay-400009, Maharashtra, India, Indian Partnership Firm. "Tooth Brush". December 27, 1990.

Class 3 No. 162858. Varun Enterprises, Vishwakarma Building 2nd fl., Central Avenue Road, Chembur, Bombay-400071, Maharashtra, India. "Comb". January 23, 1991.

Class 3 No. 162931. Ahmed Mills, Indian Partnership Firm, Two Tanks, 170, Grant Road, Bombay 400008, Maharashtra, India. "Container". February 18, 1991.

Class 3 No. 162944. Challenge Enterprise of B/14, Himmat Society, Krishna Nagar, Kural Pipe Line, Sakinaka, Bombay-72, Maharashtra, India, Indian Partnership Firm. "Tester". February 27, 1991.

Class 3. No. 162947. International Business Machines Corp., of Armonk, New York-10504, U.S.A "Computer". February 27, 1991.

Class 3. No. 162948. International Business Machines Corp., of Armonk, New York-10504, U.S.A "Computer". February 27, 1991.

Class 3. No. 162982. International Business Machines Corp., of Armonk, New York-10504, U.S.A. "Keyboard for computer". March 6, 1991.

Class 3. No. 162951. Boys Town Crafts, of Boys Town, Tirumangalam 626706, Madurai Dist., T.N., India. "Massaging Device". February 27, 1991.

Class 3 Nos. 163014 to 163017. Shripet Industries Pvt. Ltd., Indian Co. of "Shriram House", 10, Kasturi Estate, Madras-600086, T.N., India. "Container" March 13, 1991.

Class 3 No. 163064. Eagle Flask Industries Ltd. of Talegaon-410507, Dist. Pune, Maharashtra, India, Indian Company. "Electric Lunch Box". March 21, 1991.

- Class 3. No. 163085. Shah Engineering, Bhayandar (E), Dist. Thane-401103, Maharashtra, India, Partnership Firm. "Chipper". March 26, 1991.
- Class 3. No. 163108. Pratap Plastics, B-106, Virwani Industrial Estate, Off : Western Express Highway, Goregaon (E) Bombay-63, Maharashtra, India, Indian Partnership Firm. "Soap Box". April 5, 1991.
- Class 3. No. 163109. Pratap Plastics, B-106, Virwani Industrial Estate, Off : Western Express Highway, Goregaon (E) Bombay-63, Maharashtra, India, Indian Partnership Firm. "Plastic Clip". April 5, 1991.
- Class 3. No. 163121. Aditya Gupta of 1-3, Hauz Khas Enclave, New Delhi, India, Indian National. "Sealing Plier". April 10, 1991.
- Class 3. No. 163128. The Tata Oil Mills Co. Ltd., Bombay House, Homi Mody Street, Fort, Bombay 400001, Maharashtra, India, Indian Company. "Bottle". April 11, 1991.
- Class 3. No. 163156. Eagle Flask Industries Ltd., Eagle Estate, Talegaon-410507, Dist. Pune, Maharashtra, India. "Water Carrier". April 22, 1991.
- Class 3. No. 163160. Eagle Flask Industries Ltd. of Talegaon-410507, Dist. Pune, Maharashtra, India, Indian Company, "Flask". April 22, 1991.
- Class 3. No. 163212. Chinar Trust, trustee Neelkant Ratanker Dongre, C-37-Connought Place, New Delhi-110001, India, Indian Trust. "Heat Convector". May 3, 1991.
- Class 3. No. 163221. Chinar Trust, trustee Neelkant Ratanker Dongre, C-37-Connought Place, New Delhi-110001, India, Indian Trust. "Heat Convector". May 6, 1991.
- Class 3. No. 163242. Bond Street Perfumes & Cosmetics Pvt. Ltd. of 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400005, Maharashtra, India. "Bottle type container". May 15, 1991.
- Class 3. No. 163243. Bond Street Perfumes & Cosmetics Pvt. Ltd. of 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400005, Maharashtra, India. "A cap of any bottle type container". May 15, 1991.
- Class 3. No. 163257. Architectural Systems of 3, Central Avenue, Taylors Estate, Madras-600024, Tamil Nadu, India, a Proprietary Concern. "Telephone Booth". May 24, 1991.
- Class 3. No. 163279. The Supreme Industries Ltd. of 17/18 Shah Industrial Estate, Veera Desai Road, Andheri (W), Bombay-400058, Maharashtra, India. "Moulded Chair". June 4, 1991.
- Class 3. No. 163305. The Supreme Industries Ltd. of 17/18 Shah Industrial Estate, Veera Desai Road, Andheri (W), Bombay-400058, Maharashtra, India. "Moulded Chair". June 10, 1991.
- Class 3. No. 163318. Glaxo Group Ltd., a British Company of Clarges Houses, 6/12, Clarges Street, London W1Y 8DH, England. "Injector". Priority date 21-12-1990 (UK).
- Class 4. No. 163155. Fiem auto & Electrical Industries of C-171, Mayapuri Industrial Area, Phase II, New Delhi-110064, India, a propriety firm. "Head Lamp Lens/Glass". April 22, 1991.
- Class 4. No. 163244. Bond Street Perfumes and Cosmetics Private Limited of 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400005, Maharashtra, India. "A cap of any bottle type container". May 15, 1991.
- Class 4. No. 163245. Bond Street Perfumes and Cosmetics Private Limited of 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400005, Maharashtra, India. "A bottle type container". May 15, 1991.
- Class 10. No. 162701. Carona Limited of New Udyog Mandir Compound, Mogul Lane, Mahim, Bombay-400016, Maharashtra, India. "Footwear". November 27, 1990.
- Class 10. No. 162995. "ALERT INDIA", a partnership firm of A/137/6, Group Industrial Area, Wazirpur, Delhi-110052, India. "Sole of footwear". March 11, 1991.
- Class 10. No. 163268. Ajay Plastic Industries, Indian Proprietary Firm of 95-96, Hhahzada Bagh Extension, Old Rohtak Road, Delhi-1100035, India. "Footwear", May 27, 1991.
- Class 12. No. 162910. Roy William Buckland, UK citizen of 36m Pennycroft, Forestdale, Croydon, CrO 9LL, U.K. "Shuttlecock". Priority date August 15, 1990 (UK).
- Class 12. No. 163283. Bharat Biscuit Co. (P) Ltd., 538, Jodhpur Park, Calcutta-68 (Regd. Office), W.B., India. "Biscuit". June 5, 1991.

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प्रबन्धक, भारत सरकार मुद्रणालय, फरीदाबाद द्वारा मुद्रित
एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1991

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1991

